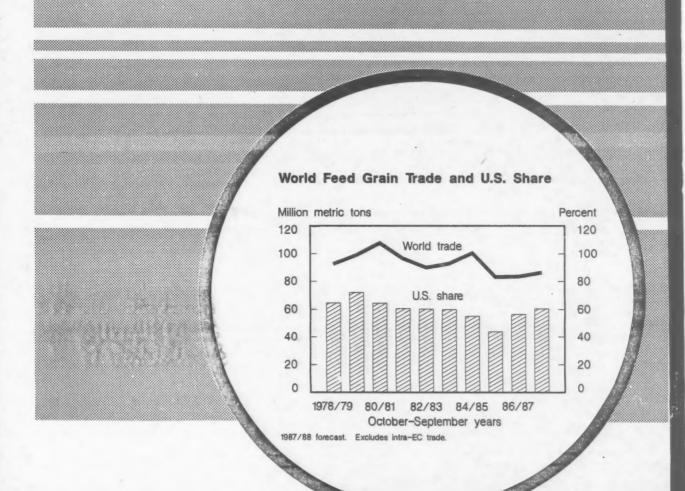


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The 1988 feed grain program contains a few changes from 1987. The target prices and loan rates are lower, the diversion percentage and payment rates are lower for the voluntary paid land diversion (PLD) program, and farmers are provided an optional 0/92 program for 1988. Oats are singled out for special treatment. The acreage reduction program (ARP) requires 5 percent for oats compared with 20 percent for other feed grains. The PLD is not available to oat producers, and limited cross-compliance restrictions are lifted.

The expected net gain to producers for participating in the ARP is high, but considerably less than it appeared to be at signup for the 1987 program. Also, the PLD's benefit is decreased by a lower payment rate. Consequently, the ARP participation rate may drop slightly, and participation in the PLD could drop significantly.

Corn disappearance for September-November 1987 was 2.18 billion bushels, an increase of 195 million bushels from a year earlier. Exports were up 77 million, food and industrial use 12 million, and feed and residual disappearance 106 million. Lower 1987/88 supplies and the gain in use during the first quarter of the crop year left December 1 stocks slightly under 9.8 billion bushels, 540 million less than year-earlier stocks.

A key factor in this year's stronger corn and sorghum prices is the commitment of a larger share of the 1987/88 supply to CCC inventory, FOR, and regular CCC crop loans, and shrinking uncommitted stocks. Corn prices have been edging upward in expectation that cash redemptions from loans will be necessary to meet market needs. Corn prices received by farmers are expected to average \$1.65 to \$1.85 a bushel, up from \$1.50 in 1986/87.

Barley supplies are down 8 percent because of a 14-percent drop in production. Barley exports for June-November were 63.1 million bushels, 5 million ahead of the year-earlier pace. Exports for the remainder of the year will depend largely on EEP sales. Barley feeding is expected to be down this

year because feed barley prices are high relative to corn.

The supply of oats is expected to total 542 million bushels, 10 percent below last year and 26 percent below the 1985/86 supply. Farm prices have averaged 40 cents a bushel above year-earlier levels. Oat feeding, which accounted for about 84 percent of total use in 1986/87, is expected to be down 12 percent.

A 21-percent increase in 1987/88 carryin hay stocks was more than offset by a 4-percent-smaller crop, resulting in a supply of 181.5 million short tons, down less than 1 percent. Also, corn and sorghum silage harvest totaled 90.8 million tons, 3.8 million less than in 1986. Roughage-consuming animal units (RCAU's) are estimated at 78.1 million for 1987/88, down 2.7 million from 1986/87 because of smaller dairy and beef herds. However, hay use for May-December 1987 was up from the year before, and December 1 stocks were down 2 percent from a year earlier. Prices received by farmers in December were up 14 percent.

Feed demand is forecast up this year, with the largest increase in the first half. Although dairy and beef cow herds are down, milk output per cow is up, so feed use in dairying may be little changed. Hog, poultry, and cattle feeding, all heavy grain—using enterprises, are increasing.

Food and industrial use of corn is expected to grow 3 to 4 percent, in contrast to an annual average growth of 11 percent from 1981/82 through 1985/86. High fructose corn syrups have about achieved maximum market penetration, and growth is now reflecting the growth of the product markets in which they are used. Use of other corn sweeteners (glucose and dextrose) and dry-milled products has had little growth in recent years. Ethanol sales for the past 2 years appear to be limited seasonally by wet-milling capacity, as a larger share of the existing capacity shifts to higher-profit-margin HFCS production in the summer.

World coarse grain production is projected to drop 5 percent, utilization to increase 1-2 percent, and trade to grow 3-4 percent.

However, with production the lowest in 4 years, and consumption setting a record, ending stocks are forecast to decrease 12 percent.

Tradeable supplies of corn and sorghum outside the United States are tight again in 1987/88, following last year's drop, because of

continued low production in a number of major exporting countries. This has contributed to rising U.S. exports and market share. However, in many markets U.S feed grain exports are still facing sharp competition with barley, feed-quality wheat, and non-grain feeds.

FEED GRAIN SUPPLY AND USE

Reduced 1987/88 U.S. feed grain supplies, tighter free stocks, and expanding exports and feed use are setting a bullish tone for prices. Carryin stocks were record large at 151.8 million tons, but feed grain production was down 15 percent to 215.2 million tons, leaving a total supply of 367.6 million tons, 11.7 million less than 1986/87 (aggregate of marketing years beginning June 1 for barley and oats and September 1 for corn and sorghum).

Feed grain use for 1987/88 is estimated at 237.5 million tons, 10 million above 1986/87. Exports are expected to rise 5.3 million tons to 51.6 million, while domestic use expands 4.7 million tons. Domestic food and industrial use likely will rise 1 million tons, with the rest in feed and residual disappearance. Total use will exceed production, resulting in a forecast decline of 21.7 million tons in ending stocks—the first drop since 1983/84.

The only basis on which a consistent year-to-year comparison of feed grain supply and use can be made is a June/May year. For

the 1987/88 June/May period, supply totals 406.8 million metric tons, 1.2 million larger than a year earlier. While record June 1 stocks of 190.9 million tons were up 38.4 million, the 1987 feed grain harvest dropped 37.1 million tons to 215.2 million.

Corn accounted for 84 percent of the feed grain supply for 1987/88, up slightly from 1986/87's 83 percent. Except for oats, the various grains' share has changed little in the past 12 years. In 1975/76, corn accounted for 80 percent of supply. Oats have declined from 5 percent of the supply in 1975/76 to 2 percent in 1987/88. Sorghum and barley accounted for approximately 10 percent and 5 percent of supply, respectively, practically unchanged from their relative importance in 1975/76.

Analysis of progress to date for feed grain use in 1987/88 is limited by incomplete data. Exports for June-Nov. 1987 totaled 23.1 million tons, up 49 percent from the previous year's 15.5 million tons. Estimates for domestic use are limited to corn, the only crop for which quarterly stock data are available. Food, seed, and industrial (FSI) use of corn for June-Nov. 1987 is estimated at 15.4 million

Feed grains; supply, disappearance, and ending stocks, June/May, 1980-1987

	:		Supply			: Disa		Disap	appearance			:			nding tocks				
Year	:	Begin- ning stocks	:	Produc- tion	: Impor	ts	Total	:	Food & indus.		Feed & resid.		Export	:	Total	:	Govt.	:	Total
							Mill	lia	on metri	C	tons								
980/81 981/82 982/83 983/84 984/85 985/86 986/87		107.2 80.7 113.6 146.4 70.6 89.3 152.5 190.9		197.9 246.2 250.2 136.4 236.9 274.4 252.3 215.2	0.3 0.4 0.4 0.7 0.8 0.7		305. 327. 364. 283. 308. 364. 405.	3 2 5 3 4 6	23.0 25.2 27.2 29.7 31.7 34.8 35.4		128. 127. 136. 126. 128. 136. 138.	183936	73.6 61.4 53.8 56.9 58.4 40.7 40.7 53.5		224.7 213.7 217.8 212.9 219.0 211.8 214.7 238.6		7.6 7.9 14.0 24.6 10.3 25.5 49.6		80.7 13.6 146.4 70.6 89.3 152.6 190.9 168.2

tons, compared with 14.9 for the comparable period in 1986. Feed and residual disappearance for June-Nov. was 57.3 million tons, compared with year-earlier disappearance of 47.7. For the 1987/88 June/May year, exports, FSI, and feed and residual disappearance are estimated to be 12.8 million tons, 600,000 tons, and 10.5 million tons, respectively, above year-earlier levels.

FEED GRAIN PROGRAM

On January 21 USDA announced the details for the 1988 feed grain program. The provisions are:

	Corn	Sorghum	Barley	Oats
Target price, \$/bu.	2.93	2.78	2.51	1.55
Loan rate, \$/bu.	1.77	1.68	1.44	.90
Expected deficiency payment				
rate, \$/bu	1.10	1.08	.76	. 30
Advanced payment portion				
(40%), \$/bu.	.44	.432	.304	.12
ARP, percent	20	20	20	
Paid land diversion, percent	10	10	10	(
Paid land diversion rate,		-		
\$/bu.	1.75	1.65	1.40	1

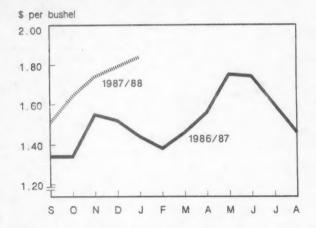
- -- 0/92 option: Producers may devote all or a portion of their permitted acreage to conservation uses (CU), and receive deficiency payments on the CU acreage at 92 percent of what the deficiency payment would have been if planted. Producers intending to use the 0/92 option must apply by March 11, and the application must state the acreage that will be planted and the acreage that will be devoted to conservation uses. Producers signing up for the 0/92 option will be guaranteed the estimated deficiency payment rates listed above. If producers do not sign up for the 0/92 option by March 11, or deviate from their submitted application, they may not receive a deficiency payment on CU acres. The regular deficiency payment will be made on the planted acres.
- --- An optional paid land diversion (PLD) program is available for corn, barley, and sorghum. The program allows producers to set aside an additional 10 percent of their crop base and receive a payment on their program yield at the rates shown above. The diversion payment will be made in generic certificates in mid-May.
- Signup period: February 16 through April 15, except that 0/92 application must be made prior to March 12.

- Advanced deficiency payments will be made equal to 40 percent of the estimated payment rates. One-half of the advanced payment will be paid in cash at signup and the balance will be in generic certificates in mid-May.
- Grazing of CU and ACR acreage will be permitted except for 5 consecutive months between April 1 and October 31 as designated by the State Agricultural Stabilization and Conservation Committee (ASCS).
- Haying on CU and ACR acreage will not be allowed in the 7 alternative months unless the State ASCS submits information that haying will not result in an adverse economic effect in the State. Haying will be allowed during 5 months only under emergency conditions.
- -- Limited cross compliance is in affect for 1988 crops of wheat, corn, sorghum, barley, upland cotton, and rice. To be eligible for support loans and payments, the acreage planted for harvest on a farm may not exceed the crop acreage base of these crops. Oats and ELS cotton are not subject to limited cross compliance regulations.
- Offsetting compliance does not apply.
- Production of crops, program or nonprogram, will not be permitted on CU acreage under 0/92 option for feed grains.

Corn

The Crop Production: 1987 Summary report reduced the corn production estimate to 7,064 million bushels from the November 1 estimate of 7,166 million. Carryin stocks of 4,882 million brought total supply for 1987/88 to 11,948 (imports may add 2.0 million bushels to supply), about 3 percent less than the previous year's 12,292 million bushels. The smaller supply, and a 32-percent year-over-year gain in total disappearance during the last half of the 1986/87 crop year (Mar.-Aug. 1987), has resulted in a generally bullish market outlook--particularly on the part of corn farmers.

During the first 5 months of the crop year, No. 2 yellow corn at Central Illinois elevators averaged \$1.70 a bushel, compared with \$1.44 for the same period a year earlier.



Another indication of the more bullish price outlook this year is that prices for deferred future contracts (i.e., March, May, and July) have been in a range which would make cash redemption of 9-month CCC loans feasible. Last year's earlier future prices were well below cash redemption values. For example, in mid-October 1986, the March futures price was \$1.75 a bushel, compared with a price range of \$1.90-\$1.95 for cash redemption of 1986 crop loans. In mid-October 1987, the March futures averaged \$1.96 a bushel and the national average redemption value for 1987 loans was also in the \$1.90-\$1.95 a bushel range.

Corn farmers' optimism about corn prices this year has been supported by market movement. The Sept.-Nov. disappearance from supply totaled 2,179 million bushels, almost 10 percent above a year earlier. Of particular significance was a 24-percent (77 million bushels) increase in exports, from 321 million bushels shipped during Sept.-Nov. 1986. FSI use was up about 4 percent from 280 million bushels last year to 292 million during the first quarter of this crop year. Feed and residual use, at 1,489 million bushels. was almost 8 percent above the 1,384 million bushels used a year earlier. Also, this year's rate of increase in feed and residual disappearance over a year earlier appears to be in line with livestock and poultry numbers during the Sept .- Nov. quarter. The weighted increase for cattle on feed, market hogs, the laying flock, and broilers and turkeys on feed from Sept.-Nov. 1986 to Sept.-Nov. 1987 was about 7.2 percent.

Item	1986/87	1987/88
Supply	Million	bushels
Beginning stocks Sept. I	4,039.5	4,881.7
CCC	545.7	1,443.2
FOR 1/	711-4	1,497.7
Loan	2,588.9	2,102.3
Free	193.4	-161.5
Production	8,249.9	7,064.1
Imports	.8	.5
Total	12,290.2	11,946.3
Disappearance		
FSI	280	292
Exports	321.1	398.0
Feed and Residual	1.383.6	1,489.4
Total	1,984.7	2,179.4
Stocks Dec. I	10,305.5	9,766.9
CCC	968.2	1,683.4
FOR	1.,105.5	1,494.2
Loan	2,878.3	2,841.5
Free	5,353.5	3,747.8
Exchanged for		
generic certificates	343.8	1,334.1

1/ Includes special producer storage loans.

The smaller supply and first-quarter disappearance left stocks on hand December 1, 1987 of almost 9.77 billion bushels, about 540 million less than a year earlier. However, about 6 billion bushels of December 1 stocks were in CCC inventory or under FOR and regular crop loans, leaving a little over 3.7 billion bushels of uncommitted stocks. In 1986, uncommitted stocks December 1 amounted to nearly 5.4 billion bushels. Thus, uncommitted stocks were tightening faster than a year ago.

Approximately \$3.0 billion of generic certificates were available in December. Through March, another \$2.6 billion will be issued. Following that, the next significant issue will be in mid-May when the certificates portion of advanced deficiency payments and paid land diversion payments is issued.

December 1 stocks of corn were 9,767 million bushels, of which 4,384 million were in CCC stocks, the FOR, and regular loans from 1986 and prior crops. Thus, 5,383 million bushels were 1987-crop corn, of which 1,635.0 million were under loan, leaving 3,748 million as remaining stocks from the 1987 harvest of 7,064 million bushels. Placements of 1987-crop corn in regular 9-month CCC loans

Crop	Value issued	Value exchanged	Value used for corn	Bushels of corn
1985/86		Billion	dollars	-Million
April-Aug.	1.7	.87	.47	252.6
1986/87				
SeptNov.	1.1	.81	.52	343.8
DecFeb.	3.1	1.51	1.21	750.9
MarMay	2.3	3.52	2.70	1,641.0
June-Aug.	1.3	.96	.78	436.1
1987/88				
SeptNov.	4.51	2.81	2.04	1,334.1

1/ Through December 15, 1987

totaled 2,385 million bushels, leaving a balance of 4,679 million. Subtracting the new-crop corn in the December 1 inventory gives an estimate of 931 million bushels of 1987-crop corn used during the Sept.-Nov. quarter.

By early February an additional 1.5 billion bushels of 1987-crop corn had been placed under loan, which reduces the free stocks available for Dec.-Aug. use to 2.2 billion. However, some of these are also likely to be placed under loan. Dec .-- Aug. disappearance is forecast at 5.6 billion bushels. If approximately 2.0 billion bushels of free stocks are available, certificate exchanges and cash redemptions would have to account for most of the balance of 3.6 billion bushels (some corn will be available from CCC catalogue sales and rotation of FOR). Last year, \$4.7 billion of generic certificates were exchanged for 2.86 million bushels of corn during Dec .- Aug.

Currently, corn prices are 20 percent above a year ago, so more certificates will be required per bushel of corn exchanged, in addition to the increased volume of corn if needs are to be met largely by certificate exchanges. If sufficient certificates are not available, or if prices do not favor certificate exchange, then corn prices will rise to encourage cash redemption in order to meet market needs.

For 1987-crop loans, interest accumulates at about 1 cent a bushel per month under loan. Thus, at maturity the breakeven price for cash redemption would be about \$1.92, but for corn under loan only 5 months it would be about \$1.87. Higher prices would be required to redeem corn from extended crop loans from earlier years because of the increased interest accumulated on the loan. For example, a loan

taken out in December 1986 and extended September 1987 would have a redemption value of about \$2.02 by June.

Program Participation In 1988 to Remain High

The expected net return above variable cost per acre for participation in the 1988 feed grain program, compared with the net return if not in the program, indicates a substantial benefit for participation, except for very large farms on which the \$50,000 payment limitation would prevent the collection of defficiency payments sufficient to replace the net revenue lost by the 20-percent ARP. However, the expected added return for participation this year is not as great as expected for the 1987 program. The average price received by farmers for Sept. 1986-Feb. 1987 was \$1.45 a bushel and the loan rate was \$1.82. The smaller additional net revenue gained from participation, compared with a year earlier, may result in slightly lower participation this vear.

Less land likely will be set aside under the PLD program this year. A producer enrolling in the PLD must place 10 percent of his base in the ACR, a 33-percent reduction from the 15 percent last year. However, the lower payment rate, \$1.75 compared with \$2.00 last year, and a widening gap between program yield and actual yield, will result in a decrease in net additional expected return above variable cost per acre for the PLD program. Consequently, fewer farmers likely will opt for the PLD this year.

Last year 62.4 percent of the corn base enrolled in the ARP program also participated in the PLD. If this drops to 40 percent this year, the paid diversion set -aside may be about 3.0 million acres this year, compared with more than 6.8 million last year.

Sorghum

The Crop Production: 1987 Summary estimated the 1987 sorghum crop at 740.9 million bushels, down 197 million from 1986 and one-third below 1985. Area harvested, at 10.6 million acres, was down 23 percent because of high participation in the feed grain program — 83 percent compared with a little below 73 percent in 1986. Sorghum producers

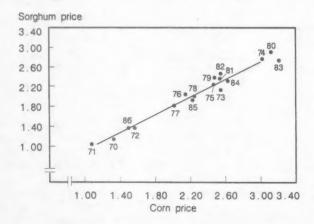
also had a high participation in the PLD. The decline in harvested area from 1986's 13.9 million acres was partially offset by higher yields. Average yield for 1987 was a record 69.9 bushels per acre, an increase of 3 percent over the previous year's 67.7 bushels.

However, with carryin stocks of 732 million bushels, almost equal to production, total supply for the 1987/88 crop year of 1,472 million bushels is down only 1 percent from 1986/87's supply of 1,489 million bushels. Carryin stocks for 1987/88 were almost a third larger than a year earlier.

Food, seed, and industrial use for 1987/88 is expected to show little change from last year's 15 million bushels. Exports are forecast at 225 million bushels, an increase of 27 million from 1986/87. Exports for Sept.-Nov. were 44.9 million bushels, down 2.6 million from a year earlier. Based on the *U.S. Export Sales* report, shipments for December to early February totaled about 43 million bushels, up 7.4 million from a year earlier. Also, outstanding sales on February 4 were 46.7 million bushels, up 9.3 million from the corresponding date last year.

Feed and residual use is estimated at 550 million bushels for 1987/88, about the same as last year. Cattle on feed, the number of market hogs, and broiler production are all up this year. However, with all of the carryin stocks in CCC inventory and FOR and regular loans, and with 328 million bushels of new-crop sorghum already placed under loan, free stocks are tight.

Relationship of Corn and Sorghum Prices



For 1970-1986, the price per bushel received by farmers for sorghum averaged 1 cent a bushel more than 90 percent of the price per bushel received by farmers for corn. Thus, corn can reach its cash redemption price without sorghum reaching its cash redemption price. With sorghum prices below cash redemption values, and a relatively small quantity of sorghum exchanged for generic certificates, free stocks are expected to be a limiting factor on feed use. Instead, corn likely will make inroads into the fringe area of the normal sorghum-feeding regions.

Program Participation to Remain High

Eighty-three percent of the sorghum base was enrolled in the feed grain program in 1987, and 51 percent of the enrolled base also participated in the PLD option. Thus, 4.1 million acres of base were in the ACR in 1987.

Based on average data for the United States, the prospective gain from participating in the 1988 program is less than last year at signup for the 1987 program. However, the estimated additional net revenues above variable cost for participating this year is over 70 percent above not being in the program, so this year's participation is expected to be near last year's 83 percent.

The PLD option this year provides for a diversion of 10 percent of the base to ACR, and the payment rate has been reduced to \$1.65 a bushel from \$1.90 last year. The PLD does not appear to promise a clear-cut gain in net revenue, and with a lower payment rate and higher cash market prices for sorghum this year, fewer farmers likely will enroll in the PLD option. Therefore, acreage in the ACR for the paid-for diversion program may be about half of last year's 1.1 million.

Barley

Barley production for 1987 was 527 million bushels, almost 14 percent below 1986. The crop yield was 52.6 bushels an acre, compared with 50.8 in 1986. Harvested acreage in 1987 was 16 percent below the year before at 10 million acres. However, the 12 million acres harvested in 1986 was the largest since 1962. June 1 stocks were 11 million bushels above last year's at 325 million.

Imports for 1987/88 are projected at 5 million bushels, for a total supply of 868 million.

Cool, wet weather during harvest in the Dakotas reduced the quality of some malting barley, which may have put some barley from malting varieties into the market as feed barley. However, feed use likely will continue to decline until barley prices move more in line with feeding values relative to corn. The average ratio of feed barley to corn price received by farmers during October, November, and December was 1.01 compared to a feeding value ratio of .8. Feed use of barley is projected at 275 million bushels for 1987/88, compared with 296 million last year.

Food, seed, and industrial use is projected to be little changed from 1986/87's 174 million bushels. The FSI situation has not shown much growth, in part because of flat demand by the brewing industry and an increase in beer imports. Beer production accounts for between 80 and 90 percent of FSI use of barley.

Barley exports totaled 137 million bushels in 1986/87 and are projected at 125 million for 1987/88. However, exports through November 1987 were 63.1 million bushels, compared with 58.2 million through November 1986. Based on U.S. Export Sales, shipments in December and January were up more than 6 million bushels from a year earlier. Outstanding sales on February 4 were only 18 million bushels compared with 56 million last year. The outlook for the remainder of the marketing year will depend largely on EEP sales. Some malt exports may occur under the EEP as well.

While total use for 1987/88 is projected down 5 percent to 575 million bushels, it will still be 9 percent greater than 1987 production. Thus, ending stocks for 1987/88 are expected to be down almost 13 percent to 293 million bushels. The stocks-to-use ratio, at 51 percent, compares to 55 percent a year ago. The 10-year average ending stocks-to-use ratio is 45 percent.

The average price received by farmers for all barley is projected to be between \$1.75 and \$1.95 a bushel, compared to \$1.61 for 1986/87. Through December, the simple average of monthly prices was \$1.84 a bushel, 26 cents above the comparable period in 1986. Last year, marketings through December

accounted for 60 percent of the total. Malting barley prices have averaged \$2.09 through December, with monthly prices reaching a high of \$2.55 in August before declining to an average of \$2.00 in Oct.—Dec. Malting barley prices averaged \$1.85 during June—Dec. 1986. The average feed barley price through December was \$1.65 a bushel, up 18 cents from a year earlier. The Duluth feed barley price averaged \$1.72 a bushel through December, compared with the Minneapolis malting barley price of \$1.98.

It was announced in January that some of the barley production and stocks surveys discontinued in 1986 would be reinstated. Production forecasts will be made for July 1 and September 1 in addition to August 1. Stocks estimates will be restored for September 1, December 1, and March 1 beginning with the new crop year.

Farm program announcements were made in January. For barley the target price is \$2.51 and the loan rate is \$1.44. Acreage reduction requirements are 20 percent of base acreage. Barley and oats crop acreage bases will continue to be combined. An optional 10 percent paid land diversion program was included for barley, with a payment rate of \$1.40 a bushel. Diversion payments will be in generic commodity certificates. An optional program known as 0/92 allows producers to devote a portion of wheat or feed grain permitted acreage to conserving uses, and receive deficiency payments equal to 92 percent of the deficiency payment that would have been due on the CU acres if planted. The estimated deficiency payment rate of \$0.76 a bushel is guaranteed to producers who participate in 0/92 if they sign up by March 11.

The program participation rate for 1986/87 was 82 percent. In 1987, estimated net returns for malting barley producers averaged 25 to 30 percent higher for participating compared to not participating in the barley program. Market conditions and Government programs announced for 1988 indicate nearly equal net returns are expected on average this year, whether or not the producer participates in the program. Therefore, the participation rate among malting barley producers is expected to decline this year. Feed barley producers on average will find participation relatively less

attractive compared with last year. However, because net returns are still expected to be 40 to 50 percent higher under program participation, the participation rate among feed barley producers likely will be similar to last year.

Oats

The January Crop Production: 1987
Summary report estimated 1987 oats
production at 374 million bushels, down 13
million from the 1986 crop and 28 percent
below 1985/86. Yield for 1987 was 54 bushels
an acre compared to 56.3 in 1986 and 63.7 in
1985. Harvested area of 6.9 million acres was
up 1 percent, but almost 11 million planted
acres were left unharvested this year. Oats
are being used extensively as a cover crop on
ARP acreage which is counted as planted
acres, but cannot be harvested for grain.

Imports are projected to rise 2 million bushels to 35 million in 1987/88. Imports through November totaled 15.2 million bushels, compared to 14.3 million through November of 1986. Beginning stocks were 51 percent lower than last year's 184 million bushels. Thus, estimated 1987/88 supply of 542 million bushels is 10 percent below last year.

Total oats disappearance for 1987/88 is projected to be 426 million bushels, down 45 million from 1986. Most of the decline is due to forecast lower feed use, which is projected to be 350 million bushels this year. A 2-million-bushel decline in exports is offset by a 2-million-bushel increase in FSI use of oats. As with barley, oats feeding use probably will continue to decline until oats prices move more in line with feeding values relative to corn. The ratio of oats to corn prices received per bushel by farmers for October, November, and December was 1.02, compared to a feed value ratio of 0.5.

Oats exports will amount to only about 1 million bushels in 1987/88, almost 2 million below last year. Food, seed, and industrial use is expected to rise 2 million bushels to 75 million.

Ending stocks are expected to tighten to 116 million bushels this year. However, the decline in total use will be largely offsetting and the stocks-to-use ratio will only drop

from 28 percent in 1986/87 to 27 percent for 1987/88. The 10-year ending stocks-to-use ratio is 37 percent.

Monthly prices received by farmers for 1987/88 have averaged \$1.53 a bushel for the first 7 months of the year. This is \$0.43 a bushel higher than for the same period last year. If farm marketings are similar to 1986/87, 60 percent of total marketings occurred through December. The 1987/88 season—average price is expected to be between \$1.50 and \$1.65 a bushel.

The 1988 oats program was announced in January. The most notable changes from the September announcements were mandated by the Agricultural Budget Reconciliation Act of 1987. The maximum ARP allowed for oats was reduced from 20 percent to 5 percent. In addition, there will be no paid land diversion for oats. The target price of \$1.55 is 5 cents below 1987. The loan rate is 4 cents below 1987/88's at \$0.90. An optional acreage diversion program known as 0/92 would permit farmers to divert all or part of their permitted acreage to conservation use and still receive up to 92 percent of their deficiency payments. For oats, the estimated deficiency payment rate is \$0.30 a bushel.

The reduced ARP and the elimination of the paid land diversion for oats is expected to stimulate domestic production. In addition, retirement of land to the conservation reserve has reduced the program base acreage in the last 2 years. Declining oats production in recent years may in part be due to relatively higher net returns for barley production in the Northern Plains States — a major producing region for both crops. A comparison of expected net returns between 1987 and 1988 for barley and oats, including the effects of Government programs, indicates oats will be relatively more profitable in 1988 than in 1987.

Hay

Hay production for 1987 was revised down 3 percent in January to 149.1 million short tons from the October estimate of 153.7. The area harvested turned out to be about 500,000 acres larger than the October estimate, but the yield was reduced by 4 percent, to 2.46 tons per acre. Revised production for 1987 is 6.4 million tons less than 1986's record 155.5 million. Alfalfa and alfalfa mixture hay

production turned out to be 84.6 million tons, down 7 million tons from 1986, and all other hay production of 64.6 million tons was 600,000 above the previous year's 64 million.

Adding May 1 carryin hay stocks of 32.4 million tons gives a total supply of 181.5 million tons in the 1987/88 May-April crop year. In 1986/87, carryin stocks were 26.7 million tons with a total supply of 182.2 million.

Silage production for 1987/88 also is down from a year earlier. Corn silage production in 1987 totaled 85.6 million tons, down 3.1 million from 1986's harvest of 88.7 million. The area harvested decreased 400,000 acres but yield was up .5 ton per acre. In addition 5.2 million tons of sorghum silage were harvested in 1987, compared with 5.9 million harvested a year earlier. Area harvested declined by 76,000 acres but yield increased by .4 ton per acre.

Roughage consuming animal units (RCAU's) for 1987/88 number about 78.1 million, compared with 80.7 million on hand last year. Smaller beef and milking herds account for the decrease in RCAU's this year.

Hay stocks December 1, 1987 were 119.7 million tons, compared with 121.7 million on hand a year earlier. Thus, disappearance for May-Nov. 1987 amounted to 61.8 million tons, compared with year-earlier use of 60.5 million. For May-Nov., the price received by farmers for hay averaged \$64.60 a ton, \$4.74 above the comparable period in 1986. For December and January this year, prices averaged \$63.75 a ton, up \$7.65 from a year earlier.

FEED DEMAND

The estimated 1987/1988 feed and residual use for feed grains (corn, sorghum, barley and oats) is up from 1986/1987 by 3.7 million metric tons. The increase is a continuation of the upward trend in feed grain use since the 1983/84 marketing year. Feed and residual use for the four feed grains in 1986/87 jumped 8 percent from the 134.8 million metric tons used in 1985/86. During 1986/87, feed and residual use of corn, the majority of the feed, was up 15 percent from the year earlier. Feed and residual use in 1986/87 of sorghum, barley, and oats were all

down from last year -- 18 percent, 11 percent, and 14 percent respectively.

An increase in animal product output resulted in an apparent increase of about 8 percent in feed and residual use of corn in Sept. Nov. Feed demand is forecast up this year with the largest increases in the first half. Although dairy and beef cow herds are down, milk output per cow is up, so feed use in dairying may be little changed. Hog and poultry production and cattle feeding, all heavy grain using enterprises, are increasing.

In 1987, commercial cattle slaughter declined over 4 percent from 1986, due mainly to a 17-percent drop in cow slaughter. Cattle slaughter may decline about 4 percent in 1988. Cow slaughter likely will decline again but fed cattle slaughter will also be lower. Fed cattle marketings will likely remain above a year ago through late spring to early summer, then decline below year-earlier levels. For the Oct.-Sept. 1987/88 feed year, the number of fed cattle marketed may be nearly the same to slightly above last year. In Oct.-Dec. 1987, cattle slaughter weights were up about 3 percent from the year-earlier level. Carrying cattle to these heavier weights required additional feed. Severe winter storms in early 1988 have likely increased feed use as more energy has been needed for body maintenance. The net impact on total feed use will depend on weather during the remainder of the winter and cattle feeders marketing practices.

Feed demand from the hog sector will likely remain strong through 1987/88. Pork production during Oct. 1987-Sept. 1988 is expected to increase 10 percent from the year-earlier level. If hog producers carry through with their intentions to increase Mar. May 1988 sow farrowings only 2 percent, feed demand from the pork sector will level off in late 1988.

The number of dairy cows in 1988 will likely average only slightly below the 1987 level. Cow numbers on Jan. 1, 1988 were down 2 percent from 1987, and dairy replacement heifers were down 5 percent. Dairy feed use in 1987 was likely down less than cow numbers because milk per cow was up 3 percent from 1986. The milk-feed price ratio was record-high in 1987 and encouraged high rates of feeding for increased milk production. A lower support price for milk and expected

higher prices of concentrate feeds will likely lower the milk-feed price ratio this year. Still, milk production in 1988 is expected to be up nearly 2 percent from 1987 as increased output per cow more than offsets the slight drop in the number of cows.

The large increases in poultry production of the past few years may slow in 1988 if poultry prices remain very weak. In 1987, broiler production was up 9 percent from 1986, and a 5-percent increase is forecast for 1988. In 1987, producers continued to feed to heavier weights, but most of the increase was in numbers of birds. Producers will likely continue feeding birds to heavier weights in 1988 unless sales of convenience food items slow. Turkey production increased 19 percent in 1987 and a 10-percent rise is likely in 1988. On a Oct. 1986-Sept. 1987 year, total poultry meat production rose 9 percent. Feed use by the poultry sector will rise again in 1987/88 as poultry meat production is expected to be up about 8 percent. Feed demand from the egg production sector during 1987/88 may be little changed from the previous year, as egg production is expected to be about unchanged.

FOOD, SEED, AND INDUSTRIAL USE OF CORN

The growth of food, seed, and industrial use of corn (FSI) for the first quarter of 1987/88 was approximately 5 percent over the same quarter last year. However, it is still anticipated that the FSI growth rate for 1987/88 will be in the 3-4 percent range. The growth outlook for FSI in the next several years, barring some technological breakthrough or policy change, should remain about 3-4 percent. In the past 5 years, FSI corn use has averaged the equivalent of 20 percent of total domestic disappearance for U.S. corn.

Since 1980, the highest corn-use category of FSI has been high fructose corn syrup (HFCS). HFCS used 339 million bushels of corn in 1986/87, up 3 percent from last year. First-quarter corn use in 1987/88 for HFCS was 79 million bushels, 5 percent higher than the same period last year. The overall HFCS growth rate for 1987/88 is projected to be closer to 3 percent. HFCS prices have been very low the past several months. The average Midwest price for HFCS 42, which

was 12.5 cents a pound in late November 1987, has slipped as low as 8 cents a pound. The Midwest wet price for HFCS-55 was 15 cents a pound in September 1987 but has now dropped to approximately 11 cents a pound.

A futures contract for HFCS was established in April 1987 at the Minncapolis Grain Exchange. A number of difficulties were encountered in the trading of the contract. Trading of the contract came to a virtual halt by midsummer. To revive the contract, a number of possible changes are under review by the Commodity Futures Trading Commission. Some of the contract changes being considered include redefining the delivery points, adding a number of contract months, changing the size of the trading units, and reducing the premium charges.

In 1986/87, 63 percent of corn disappearance for HFCS was for HFCS-55, which is primarily used in soft drinks. The remainder was for HFCS-42, used in the sweetening of bakery, dairy, and cereal products. This year the ratio has changed slightly, with 60 percent of disappearance for HFCS-55 and the remaining 40 percent for HFCS-42.

Glucose and dextrose production remained at a relatively flat pace. However, there has been a 25-percent increase in corn use for starch over the past 5 years. Strong demand for starch by the paper and corrugating industries has contributed to the higher growth. Starch is also used by the brewing, pharmaceutical, building, textile, and food industries. The strong economy has contributed to the good demand for starch. However, starch is more susceptible than other corn-based products to the ups and downs of the business cycle, and accordingly its growth pattern is subject to greater variations.

Production of crystalline fructose (CF) from Staley's new plant began last summer. With this new, more efficient plant, CF is expected to serve as a partial replacement for sugar in a number of new products. Previously, CF has been sufficiently expensive that its only major use has been in health foods. However, even if CF is produced in the future for a lower price, it remains to be seen how adaptable it is on a commercial scale and

		Wet-mille	ed products					
Year beginning September I	HFCS	Glucose and dextrose	Starch	Alcohol	Dry-milled alcohol	Dry-milled and alkaline cooked products	Seed	Total
		-		Milli	on bushels			
1975	45	162	116	5	20	154	20	522
1976	62	164	116	10	15	155	20	542
1977	80	170	124	10	20	158	20	582
1978	105	170	124	15	20	155	20	609
1979	127	170	120	25	20	158	20	640
1980	165	183	120	35	35 35	160	20	718
1981	185	183	130	83		162	19	797
1982	215	188	127	130	50	170	15	895
1983	256	189	147	150	50	164	19	975
1984	310	187	143	170	100	160	21	1,091
1985	328	188	152	185	127	161	19	1,160
1986 2/	339	185	155	200	135	161	16	1,191
1987 3/	348	186	160	207	145	163	16	1,225

1/ Data in this table are estimates based on production and sales figures obtained from various
Government and private industry publications as well as on unpublished information provided by numerous
industry sources. 2/ Preliminary. 3/ Projected.

what type of reception it will receive from consumers.

The aggregate amount of corn used for dry-milled and alkaline-cooked product has remained virtually unchanged over the past several years, but some very different trends are taking place within the category. Corn use in beer for 1986/87 dropped to its lowest annual total in a decade. However, corn use for cereal, flour, and meal has been rising for a number of years. The net effect for dry-milling is that overall usage remains relatively flat, as a rise for cereal, meal, and flour offsets the reduction for beer use.

The use of corn for ethanol in 1987 continues to climb, but at a much slower pace in comparison with the years going back to 1980. In 1987/88, corn use for ethanol is expected to increase by 3-5 percent over last year, compared with the double digit increases that occurred in 1979-85. Monthly sales of ethanol blended fuel again reached new records during the first 7 months of calendar 1987. However, as in 1986, sales fell off during late summer and the fall months. Ethanol sales either had no increase or were only slightly higher than 1986 sales for the last 5 months of the year.

One of the reasons for lower ethanol sales in the summer is the strong competition for

wet-milling capacity. Heavy demand for HFCS in soft drinks in the summer, along with the fact that HFCS cannot be stored for long periods of time, means that any wet-milling capacity that has the ability to shift moves into higher-profit HFCS production. In the fall, milling capacity is again available for ethanol production with the decline in demand for HFCS. However, at the same time, seasonal demand for automotive fuel and presumably ethanol also declines.

There were predictions of large-scale increases in the use of ethanol with a mandate for oxygenated fuel use in the winter in Colorado. This has not proven to be the case. The additive MTBE is being used in over 90 percent of the oxygenated fuels sold in Colorado. Ethanol fuels are currently accounting for only about 5 percent of fuel sales.

WORLD COARSE GRAIN SITUATION

World coarse grain production is projected to decline 5 percent during 1987/88, utilization to increase 1 to 2 percent, and trade to grow 3 to 4 percent. Ending stocks for the world are forecast to decrease 12 percent, with production forecast at 792 million tons, the lowest in 4 years, and consumption expected to set another record at

878 million. The world stocks-to-use ratio will be the lowest in 3 years at 25 percent.

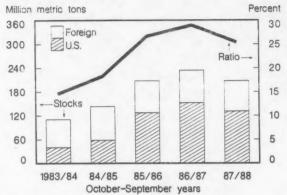
While the tightening of world supplies largely reflects changes in the United States, foreign adjustments are also taking place. Foreign ending stocks are projected to drop 7 percent while foreign utilization will only increase 1 percent. Foreign production of all coarse grains is projected to drop less than 1 percent from last year's record, as corn, sorghum, and oats output decline but barley expands.

Exportable supplies of corn and sorghum outside the United States are tight again in 1987/88, following a drop a year ago, because of low production in a number of exporting countries. However, U.S. feedgrain exports continue to face sharp competition from barley, feed-quality wheat, and non-grain feeds in some markets. The short supply of corn and sorghum in competing countries, and growing demand by some key importers, has contributed to rising U.S. exports and market share. The United States is expected to account for 60.5 percent of world coarse grain exports in 1987/88, up from 57 percent in 1986/87 and just 44 percent in 1985/86. 1/ The forecast share for 1987/88 will be the highest since 1981/82, although the volume of exports was higher then.

Current Production Focus on Southern Hemisphere

Foreign production of coarse grains is forecast at 577 million tons, compared with 580 million in 1986/87. Many offsetting changes characterize the 1987/88 season and explain why the aggregate change is so small. Midway through 1987/88, production estimates for Northern Hemisphere countries are quite firm, with only minor revisions likely. Output in the European Community (EC) is virtually unchanged, as unfavorable weather in the northern countries held back yield advances. Poor weather also had an adverse impact on Scandinavia, with output in non-EC Western Europe down 14 percent. Eastern Europe's coarse grain production fell 12 percent, as a period of hot, dry weather reduced corn output

World Coarse Grain Ending Stocks and Stocks-to-Use Ratio



1987/88 forecast. World estimates include new data series for China.

sharply. Soviet output, however, was up 9 percent to a record 115.8 million tons. Many Asian nations, notably India and Thailand, experienced poor crops because of hot weather and weak monsoon rains. However, China had mostly favorable conditions and a record corn crop.

The situation in the Southern Hemisphere is still evolving, with harvests a month or two away in most areas. Most attention is currently focused on the corn crops in Argentina, Brazil, and South Africa, which have a large potential impact on world trade. All three of these countries face substantial variability in their weather. More attractive prices for soybeans have apparently led to reduced corn plantings in both Argentina and Brazil. Even with much better growing conditions to date and prospects for better yields in Argentina, the lower plantings are expected to result in a crop similar to last year's weather-reduced outturn. Financial pressures on producers are strong and some uncertainty about government policy -- a possible land tax and an export tax on grains -- also may have influenced planting decisions.

Brazil is forecast to produce 22.5 million tons of corn for 1987/88, a decline of 4 million tons from last year's record crop, but the extent of switching from corn into soybeans is not fully known yet. It appears that part of the switch involves highly productive commercial land. Last year's announcements of high domestic prices triggered a sharp expansion in plantings and record yields. However, the bumper crop strained storage

^{1/} All trade years referred to in this section are October-September and exclude intra EC trade unless otherwise specified.

capacity and prices received by farmers often dropped below official levels.

In South Africa, plantings are reportedly down because of government efforts to discourage corn production in favor of other crops and livestock. This is related to the high cost of subsidizing its corn exports onto the world market, where prices are substantially below domestic South African prices.

Unusually heavy rains early in the season resulted in much of the crop being planted late, leaving part of the crop still vulnerable to the high temperatures and dry conditions that often occur this time of year. However, generally favorable conditions to date indicate a crop of 8.5 million tons, up 13 percent from 1986/87 and sufficient to allow some exports.

Australia's coarse grain harvests are nearly complete, except for sorghum. The sorghum crop is forecast to increase 33 percent to 1.6 million tons, mainly due to improved yields as area increased marginally. Production of oats is also up, by 13 percent, because of higher area. Partially offsetting these gains was another drop in barley production-down for the third consecutive year. The 1987/88 barley crop of 3.3 million tons is down 7 percent, although plantings were up slightly. However, this decline was less than that of wheat, which dropped 26 percent from a much larger base. Although there has been some switching among grains, Australian farmers in the last 2 years have increasingly turned from grains to livestock and non-grain crops in the face of declining grain prices.

Moderate Pickup Forecast for World Imports

World imports of coarse grains are projected to rise 2.9 million tons - about 3.5 percent -during 1987/88. While this growth is much less than for wheat, it is a considerable improvement over last year when trade increased less than a half million tons or less than .5 percent. Most of the year to-year increase is expected in corn, with a small gain in sorghum trade, and a slight drop for barley. Although export prices for all the coarse grains have firmed somewhat in recent weeks, they remain relatively low.

Part of the forecast increase in world trade is related to production shortfalls,

World coarse grain trade: Major exporters and importers, 1984/85-1987/88

Country	1984/85*	1985/86	1986/87 preliminary	1987/88 forecas
		Million	metric tons	
Exporters				
United States	55.4	36.4	47.5	52.3
Canada	3.3	5.8	6.6	5.8
Argentina	10.6	5.7	5.0	6.0
Australia	6.4	5.0	3.1	3.6
EC-12	8.5	8.1	6.2	8.5
Other Western Europe	1.7	2.0	1.4	0.6
Eastern Europe	2.8	1.9	2.7	1.2
Thelland	3.5	4.0	2.6	1.1
South Africa	0.2	1.5	2.6	1.8
China	5.7	7.1	4.1	4.3
Others	2.1	1.7	1.8	1.4
Total	100.4	83.2	83.6	86.5
Importers				
EC-12	9.5	5.5	3.3	3.8
Other Western Europe	1.3	1.1	1.3	1.7
Eastern Europe	3.8	5.6	3.3	5.1
Japan	20.7	21.5	22.0	22.1
China	0.1	0.7	2.1	3.0
USSR	27.3	13.6	11.6	10.0
Egypt	1.7	1.9	2.4	2.3
Algeria	1.1	0.7	1.2	1.2
Mexico	4.2	2.4	4.2	5.1
Brazil	0.3	2.1	1.6	0.2
Venezuela	1.6	0.8	0.8	0.9
Israel	1.0	1.1	1.1	1.1
Saudi Arabia	5.5	7.4	9.2	6.2
Iran	1.3	1.5	0.9	1.7
Iraq	0.8	0.2	0.7	0.9
Malaysia	1.2	1.2	1.3	1.4
Korea, Rep.	3.4	4.0	4.6	5.8
Taiwan	4.3	4.1	4.8	4.8
Others	11.2	7.7	7.3	9.3
Total	100.4	83.2	83.6	86.5

*October-September year.

especially in Eastern Europe. Coarse grain imports by Eastern Europe could jump over 50 percent to 5.1 million tons as both corn and barley imports increase. Given many of these countries' very limited foreign exchange, however, the availability of credit and relative prices of the various coarse grains (and feed wheat) will shape the final mix of commodities purchased. An increase of more than a third in coarse grain imports is forecast for non-EC Western Europe, primarily because of a poor Scandinavian barley harvest. Also, both Eastern Europe and non EC Western Europe will reduce their coarse grain exports.

A forecast increase of 1 percent in foreign consumption of coarse grains will also account for some gains in trade. Much of the increase in use is taking place in the higher-income developing countries, particularly East Asia. The combined feed use of South Korea and Taiwan could rise almost 20 percent and continue to spur strong import demand. Both countries mainly import corn. Taiwan's coarse grain imports are expected to stay equal to last year's record 4.8 million tons, while Korea's rise an additional 20 percent to 5.8 million.

Imported feed-quality wheat has captured a significant share of Korea's rising feed use. Feed wheat imports reached 1.9 million tons in 1986/87 (July-June), mostly from Australia and Canada. Despite lower availability from Australia this year, increased EC exports and continued Canadian sales may push feed wheat imports to near last year's level. Although a relatively small amount is traded compared to coarse grains, its continued availability at competitive prices means that feed wheat will remain a factor in holding down growth in world coarse grain use in 1987/88. World feed use of wheat is anticipated to drop this year. but only because of a sharp decline in the USSR. Other foreign use is forecast to rise about 4 percent.

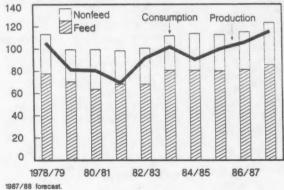
Soviet Union and China Strongly Influence World Trade Outlook

Although both the Soviet Union and China had good crops in 1987, considerable uncertainty surrounds current trade prospects. as well as the longer-term outlook. Both countries are debating the direction of future policies. In 1987/88, grain production in the USSR was relatively large for the second straight year. The USSR has attributed much of these gains to current reforms and the "intensive technology" program. While wheat output decreased, coarse grain output was reported at record levels, up some 10 million tons. The increase in coarse grains relative to wheat reflects extensive replanting of winterkill wheat with spring barley and rain damage to spring wheat. Forecast 1987/88 USSR coarse grain imports are projected to drop for the third year in a row to 10 million tons, the lowest since 1976/77. Despite lower purchases in recent years, the USSR remains the second largest importer in the world after Japan, and its buying pattern has a very strong impact on the world market.

The outlook for Soviet imports is far from clear. Growth in feed demand is expected to continue strong. A commitment to increase meat production through improved feed rations will require increasing amounts of better quality grain, along with more protein feeds. Further gains in Soviet coarse grain production would not necessarily mean additional reductions in imports. High dockage and waste have always been a problem in the USSR, reducing quality and the amount of usable grain. Improving marketing

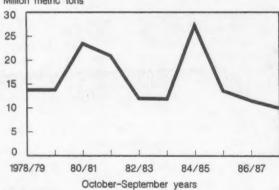
USSR Coarse Grain Production and Consumption





USSR Coarse Grain Imports

Million metric tons



1987/88 forecast.

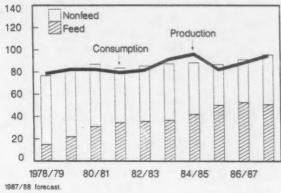
infrastructure could help reduce losses but this will be a slow and costly process.

China has been a net exporter of coarse grains for the last 5 years, but it may soon revert to being a net importer. Rising feed demand and tightening supplies resulted in a sharp jump in China's 1986/87 corn imports, from under 400,000 tons in 1985/86 to over 1.5 million. Two-thirds of this came from the United States. Meanwhile, China's corn exports fell 40 percent to 3.8 million tons, representing a decline in market share from 12 to 7 percent. For 1987/88, corn exports are forecast to hold steady at 3.8 million tons and imports to increase again to 2.7 million.

Despite expected strong growth in demand for meat, it appears that China will not be able to sustain the rapid growth in feed

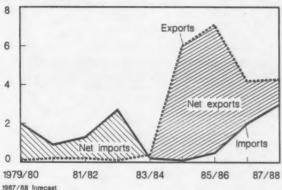
China's Coarse Grain Production and Consumption





China's Coarse Grain Trade

Million metric tons



use of the last decade. 1/ A pork shortage developed in late 1987 and rationing was reintroduced in some major cities. Pork producers apparently cut output as increases in feed prices outpaced those for pork. Although coarse grain area was up 3 percent in 1987, there is little likelihood of significant expansion because of limited land area and rising interest in non-grain crops. While coarse grain output may increase again in 1988, future gains will probably stem from improved yields and the government is trying to increase fertilizer use. Feed supplies in China will continue to be tight as growth in demand will likely exceed domestic output.

1/ This discussion is based on new USDA estimates of China's grain utilization.

U.S. Corn and Sorghum Exports Ahead of Last Year

Overall coarse grain exports from outside the United States will be down in 1987/88 to the lowest level in 8 years. Competitor corn shipments are forecast to drop another 12 percent below last year's depressed level. Argentina's exports are expected to rise 1 million tons to 5 million based on current production forecasts, but this would still be below the 1981/82 to 1985/86 average of 6.4 million. South Africa's exports are forecast to decline about 30 percent to 1.8 million tons. The outturn from their current crop will mainly affect exports for 1988/89. Thailand's supplies are apparently sold out, with exports reaching just 1 million tons. Eastern Europe's corn exports will also be down sharply. Among other significant exporters, only China and the EC are not expected to show year-to-year declines in 1987/88. China's main markets are Japan and the USSR, but it could pick up some additional sales to other Asian markets that normally buy Thai corn. Exports of EC corn to non-member countries will most likely go to North Africa and Eastern Europe.

Competitor barley and sorghum exports are also expected to be down, although not as sharply as for corn. EC barley exports are projected to increase over 20 percent to 7 million tons, Canada's to fall 20 percent to 4.8 million tons, and Australia's to be nearly unchanged at 2.1 million. However, aggregate shipments from other smaller exporters, such as Finland, are expected to drop 50 percent. For competitor sorghum, only Australia's exports are forecast to rise. Thailand's projected exports are very low, at 65,000 tons the lowest in nearly 2 decades. This reflects lower output and increasing domestic feed use in light of short corn and rice bran supplies.

One major unknown factor having a potential impact on world coarse grain trade is Thailand's very large stocks of cassava (also called manioc). This is mostly exported to the EC under quota at minimal tariffs. However, as demonstrated in past years, if the cassava price falls low enough, it can compete successfully with corn as a feed when used with supplemental protein meal. This occurred in 1985 when such markets as Japan, Korca, and the USSR took significant amounts.

U.S. export commitments to date (U.S. Export Sales, February 4, 1988) on a crop year basis are running 38 percent above last year's pace for corn and 13 percent for sorghum. Barley commitments are down 26 percent. For 1987/88, the U.S. market share for corn is forecast at 74.2 percent, up from 70 the previous year. Japan is the largest U.S. corn customer so far, followed by Taiwan and Korea. The pace of sales to all three of these markets is up substantially.

The EC recently bought 1.2 million tons of U.S. corn under the terms of the EC/U.S. Compensation Agreement. The February limit was extended to enable this sale to satisfy the 1987 requirement. Some corn gluten feed also counted against the required level of imports of 2 million tons of corn from outside the EC. Purchases of U.S. corn by the Soviet Union

total 1.7 million tons to date, with 4 million called for in the October-September year of the grain agreement between the 2 countries.

The U.S. share of the world sorghum market is forecast at 68.4 percent in 1987/88 compared to 63 in 1986/87. So far this year, Japan is easily the largest U.S. market, followed by Venezuela, Israel, and Mexico. Some sorghum sales are possible under EEP, with a recent initiative announced for Poland for sorghum/barley. However, most of the EEP for feed grains applies to barley. Exports under EEP account for most U.S. barley sales which are forecast to raise the U.S. share of the world barley market to 18.3 percent in 1987/88 from 16.4 the previous year. Important markets in 1987/88 to date include Saudi Arabia, Algeria, Iraq, and Bulgaria.

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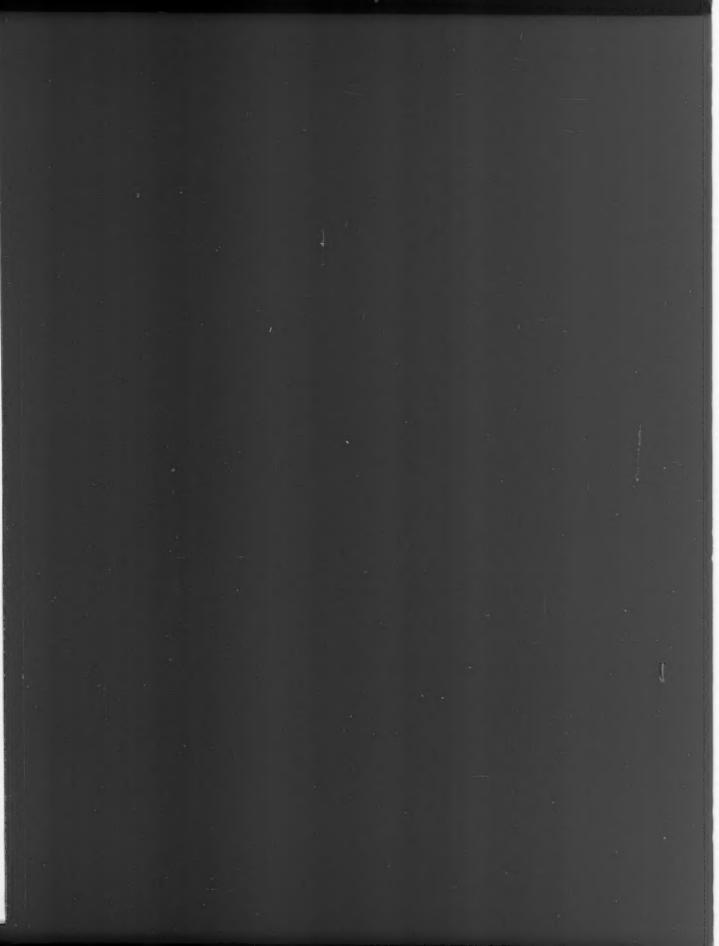


Table 1.--Corn, sorghum, oats, barley: Farm price, planted acreas

Year			CORN		Yield per
Beginning Sep. 1*/	Farm price	Planted acreage	Harvested for grain	Production	harvested
	Dol./bu.	1,00	0 acres	1,000 bushels	Bushels
1950	1.52	82,859	72,398	2,764,071	38.2
1951	1.66	83,275	71,191	2,628,937	36.9
1952	1.52	82,230	71,353	2,980,793	41.8
1953	1.48	81,574	70,738	2,881,801	40.7
1954	1.43	82,185	68,668	2,707,913	39.4
1955	1.35	80,932	68,462	2,872,959	42.0
1956	1.29	77,828	64,877	3,075,336	47.4
1957	1.11	73,180	63,065	3,045,355	48.3
1958	1.12	73,351	63,549	3,356,205	52.8
1959	1.05	82,742	72,091	3,824,598	53.1
1960	1.00	81,425	71,422	3,906,949	54.7
1961	1.10	65,919	57,634	3,597,803	62.4
1962	1.12	65,017	55,726	3,606,311	64.7
1963	1.11	68,771	59,227	4,019,238	67.9
1964	1.17	65,823	55,369	3,484,253	62.9
1965	1.16	65,171	55,392	4,102,867	74.1
1966	1.24	66,347	57,002	4,167,608	73.1
1967	1.03	71,156	60,694	4,860,372	80.1
1968	1.08	65,126	55,980	4,449,542	79.5
1969	1.16	64,264	54,574	4,687,057	85.9
1970	1.33	66,863	57,358	4,152,243	72.4
1971	1.08	74,179	64,123	5,646,260	88.1
1972	1.57	67,126	57,513	5,579,832	97.0
1973	2.55	72,253	62,143	5,670,712	91.3
1974	3.02	77,935	65,405	4,701,402	71.9
1975	2.54	78,719	67,625	5,840,757	86.4
1976	2.15	84,588	71,506	6,289,169	88.0
1977	2.02	84,328	71,614	6,505,041	90.8
1978	2.25	81,675	71,930	7,267,927	101.0
1979	2.48	81,394	72,400	7,928,139	109.5
1980	3.12	84,043	72,961	6,639,396	91.0
1981	2.47	84,097	74,524	8,118,650	108.9
1982	2.55	81,857	72,719	8,235,101	113.2
1983	3.21	60,217	51,483	4,174,678	81.1
1984	2.63	80,543	71,915	7,674,020	106.7
1985	2.23	83,448	75,224	8,876,706	118.0
1986	1.50	76,674	69,159	8,249,864	119.3
1987		65,706	59,167	7,064,143	119.4

^{*} Crop year began Oct. I prior to 1986.

eage, harvested acreage, production, and yield, 1950 to date

:		SORGHUM		
*				Yield por
: Farm	Planted	Harvested	Production	narvested
: price	acreage	for grain		acre
Dol./cwt	1,000	acres	1,000 bushels	Bushels
1.88	16,055	10,346	233,536	22.6
2.36	15,028	8,544	162,863	19.1
2.82	12,289	5,326	90,741	17.0
2.36	14,590	6,295	115,719	18.4
2.25	20,148	11,718	235,575	20.1
1.74	23,921	12,891	242,638	18.8
2.05	21,384	9,209	204,881	22.2
1.74	26,886	19,682	567,506	28.8
1.78	20,675	16,524	581,012	35.2
1.53	19,508	15,406	555,441	36.1
1.49	19,598	15,601	619,954	39.7
1.80	14,294	10,985	480,208	43.7
1.82	15,060	11,571	510,284	44.1
1.74	17,516	13,326	585,394	43.9
1.88	16,770	11,742	489,796	41.7
1.76	17,079	13,029	672,698	51.6
1.82	16,372	12,813	714,992	55.8
1.77	18,945	14,988	755,344	50.4
1.69	17,793	13,890	731,277	52.6
1.91	17,231	13,437	729,919	54.3
2.04	16,957	13,568	683,179	50.4
1.86	20,547	16,142	867,997	53.8
2.45	17,035	13,212	801,350	60.7
3.82	18,994	15,700	923,224	58.8
4.95	17,588	13,809	622,711	45.1
4.23	18,080	15,403	754,354	49.0
3.62	18,143	14,466	710,797	49.1
3.25	16,636	13,797	780,944	56.6
3.59 4.19	16,197	13,410	731,270	54.5
4.17	13,211	12,901	807,422	62.6
5.19	15,639	12,513	579,343	46.3
4.01	15,930	13,677	875,835	64.0
4.41	16,028	14,137	835,083	59.1
4.89	11,880	10,001	487,521	48.7
4.15	17,254	15,355	866,241	56.4
3.45	18,285	16,782	1,120,271	66.8
2.45	15,336	13,859	938, 124	67.7
	11,804	10,604	740,869	69.9

Table 1.--Corn, sorghum, oats, barley: Farm price, planted acreage, har

Year			OATS		Yield per	
rear	Farm price	Planted acreage	Harvested for grain	Production	harvested	
	Dol./bu.	1,000	acres	1,000 bushels	Bushels	
950	0.79	45,044	39,306	1,369,199	34.8	
1951	.82	41,015	35,233	1,277,647	36.3	
1952	.79	42,341	37,012	1,217,433	32.9	
953	.74	43,220	37,536	1,153,205	30.7	
954	.71	46,898	40,551	1,409,601	34.8	
955	.60	47,494	39,027	1,495,978	38.3	
956	.69	44,205	33,333	1,151,398	34.5	
957	.61	41.840	34,065	1,289,880	37.9	
1958	.58	37,699	31,247	1,401,410	44.8	
1959	.65	35,064	27,758	1,050,051	37.8	
1960	.60	31,419	26,588	1,153,332	43.4	
1961	.64	32,314	23,886	1,010,314	42.3	
1962	.62	29,500	22,377	1,012,197	45.2	
1963	.62	28,054	21,308	965,510	45.3	
1964	.63	25,634	19,759	852,257	43.1	
1965	.62	24,046	18,522	929,554	50.2	
966	.67	23,343	17,877	803,324	44.9	
1967	.66	20,719	16,110	793,800	49.3	
968	.60	23,342	17,708	950,689	53.7	
969	.58	23,561	17,971	965,863	53.7	
1970	.62	24,410	18,594	915,236	49.2	
1971	.60	21,831	15,705	878,079	55.9	
1972	.72	19,990	13,410	690,616	51.5	
1973	1.18	18,605	13,770	659,136	47.9	
1974	1.53	17,013	12,608	600,655	47.6	
1975	1.46	16,434	13,038	638,960	49.0	
1976	1.56	16,620	11,834	540,441	45.7	
1977	1.09	17,732	13,485	752,774	55.8	
1978	1.20	16,407	11,126	581,657	52.3	
1979	1.33	13,960	9,682	526,748	54.4	
1980	1.72	13,381	8,657	458,792	53.0	
1981	1.88	13,632	9,407	509,529	54.2	
1982	1.49	13,951	10,258	592,630	57.8	
1983	1.62	20,289	9,072	476,961	52.6	
1984	1.67	12,414	8,163	473,661	58.0	
1985	1.23	13,255	8,177	520,800	63.7	
1986	1.21	14,691	6,860	386,356	56.3	
1987 1/		17,959	6,925	373,765	54.0	

1/ Preliminary.

Note: Revised prices received by farmers, 1979 to date reflecting January on U.S. monthly prices weighted by monthly marketings. Prices do not incl

Source: Agricultural Statistics Board, National Agricultural Statistics S

age, harvested acreage, production, and yield, 1950 to date--continued

per	8		BARLEY		Yield per
sted	Farm	Planted	Harvested	Production	harvested
0	: price	асгеаде	for grain		acre
	:				
els	Dol./bu.	1,00	0 acres	1,000 bushels	Bushels
8	1.19	13,010	11,155	303,772	27.2
3	1.26	10,790	9,424	257,213	27.3
9	1.37	9,190	8,236	228, 168	27.7
7	1.17	9,615	8,680	246,723	28.4
8	1.09	14,740	13,370	379,254	28.4
3	.92	16,293	14,523	403,065	27.8
5	.99	14,732	12,852	376,661	29.3
9	.89	16,398	14,872	442,761	29.8
8	.90	16,150	14,791	477,368	32.3
8	.86	16,766	14,869	420,203	28.3
4	.84	15,527	13,856	429,005	31.0
3	.98	15,623	12,806	392,441	30.6
2	.92	14,380	12,214	427,726	35.0
3	.90	13,452	11,236	392,833	35.0
1	.95	11,652	10,277	386,059	37.6
2	1.02	10,123	9,166	393,055	42.9
9	1.06	11,184	10,250	392,108	38.3
3	1.01	10,077	9,230	373,745	40.5
.7	.92	10,486	9,732	426, 151	43.8
.7	.89	10,291	9,557	427,055	44.7
.2	.97	10,476	9,712	416,091	42.8
9	.99	11,061	10,104	462,423	45.8
.5	1.21	10,567	9,645	421,719	43.7
9	2.14	11,045	10,295	417,434	40.5
.6	2.81	8,713	7,930	298,669	37.7
.0	2.42	9,373	8,617	379,162	44.0
.7	2.25	9,301	8,439	383,007	45.4
.8	1.78	10,778	9,728	427,784	44.0
.3	1.92	9,989	9,248	454,759	49.2
.4	2.27	8,116	7,527	383,201	50.9
.0	2.79	8,320	7,260	361,135	49.7
.2	2.48	9,618	9,038	473,512	52.4
.8	2.18	9,549	9,013	515,935	57.2
.6	2.47	10,422	9,731	508,925	52.3
.0	2.29	11,957	11,231	599, 204	53.4
.7	1.98	13,156	11,603	591,383	51.0
.3	1.61	13,059	12,007	610,522	50.8
.0		11,046	10,027	527,010	52.6

January 30, 1987 Agricultural Prices report. U.S. average prices based not include an allowance for loans outstanding and government purchases.

istics Service, USDA.

Table 2 .-- Feed grains: Marketing year supply and

	:	Su	pply		0	[
Year	: Begin-		: :			omestic use
2/	: ning	:Produc-	:Imports :	Total	Food,	· Cood ·
	: stocks	: tion			: alcohol, and : industrial	: Seed : a
	•	•	1 1		· Industrial	10.
	:					Million
1975/76	: 21.1	185.0	0.4	206.5	16.5	1.5
1976/77	23.9	194.0	0.3	218.2	17.1	1.6
1977/78	: 36.9	205.3	0.3	242.5	18.0	1.5
1978/79	: 50.3	221.5	0.3	272.1	19.2	1.4
1979/80	57.7	237.9	0.3	295.9	20.0	1.4
1980/81	63.8	197.9	0.3	262.0	22.1	1.3
1981/82	: 44.2	246.2	0.3	290.7	24.0	1.4
1982/83	78.0	250.2	0.3	328.5	26.5	1.4
1983/84	: 108.6	136.4	0.7	245.7	28.3	1.5
1984/85	39.6	236.9	0.8	277.3	30.6	1.5
1985/86	57.5	274.4	0.9	332.7	33.5	1.5
1986/87	: 126.3	252.3	0.7	379.3	34.3	1.2
1987/88 4/	: 151.8	215.2	0.7	367.6	36.	4

^{1/} Aggregated data on corn, sorghum, barley, and oats. 2/ The marketing ybarley, June 1. 3/ Includes total Government loans (original and reseal).

pply and disappearance, 1975/76-1987/88 1/

	Disap	pear	ance			:	Ending sto	ocks
stic	use			:	: Total	:	:Privately	
eed		:	Total	:Exports	: disap- :pearance	:Govt.		: Total
	:residua	1:		1	:	:	:	:
illi	ion metri	c to	ons					
.5	115.4		133.4	49.2	182.6	0.4	23.5	23.9
.6	112.5		131.2	50.1	181.3	*****	36.9	36.9
.5	117.1		136.6	55.6	192.2	0.2	50.1	50.3
.4	134.3		154.9	59.5	214.4	3.8	53.9	57.7
.4	139.7		161.1	71.0	232.1	7.8	56.0	63.8
.3	123.9)	147.3	70.5	217.8	7.3	36.9	44.2
.4	127.4	1	152.8	59.9	212.7	8.3	69.7	78.0
.4	139.0)	166.9	53.0	219.9	33.5	75.1	108.6
.5	119.7	7	149.5	56.6	206.1	8.0	31.6	39.6
.5	131.1	1	163.2	56.6	219.8	8.9	48.6	57.5
1.5	134.8	3	169.8	36.6	206.4	20.4	105.9	126.3
1.2	145.8	3	181.2	46.3	227.5	48.8	103.0	151.8
_	149.5	5	185.9	51.6	237.5			130.1

keting year for corn and sorghum begins September I; for oats and seal). 4/ Projected.

Table 3.--Foreign coarse grains: Supply and disappearance, 1975/76 - 1987/88 1/

Year	Beginning stocks	Production	Disappe	Total	Imports	Adjusted Imports 2/	Ending stocks
COFEN			Milli	on metri	c tons		
1975/76	31.7	191.1	122.6	230.0	60.7	NA	36.4
1976/77	36.4	196.1	120.7	234.4	59.2	NA	38.9
1977/78	38.9	199.9	131.7	249.6	68.2	NA	40.1
1978/79	40.1	207.2	137.6	258.9	69.9	NA	41-1
			159.2		79.1	73.9	45.8
979/80	41.1	223.7		281.3			
980/81	45.8	239.9	168.5	291.7	79.1	78.1	48.9
981/82	48.9	235.0	176.2	295.6	77.6	67.3	43.8
982/83	43.8	230.3	174.9	289.4	73.2 64.8	63.3	38.6
983/84	38.6	241.5	168.3	286.2	64.8	61.1	39.4
1984/85	39.4	264.0	184.7	303.5	72.5	66.5	46.8
1985/86	46.8	254.8	187.3	292.5	62.0	54.5	40.4
986/87 3/	40.4	266.6	193.6	306.3	61.4	56.3	37.9
987/88 4/	37.9	261.2	188.0	310.0	68.1	58.2	35.0
SORGHUM							
1975/76	7.3	44.7	18.5	49.2	10.2	NA	7.2
1976/77	7.2	44.1	22.1	50.7	12.4	NA	7.2
1977/78	7.2	44.6	21.0	49.3	10.9	NA	7.4
978/79	7.4	45.0	22.2	50.8	11.1	NA	7.3
1979/80	7.3	41.0	21.5	50.6	12.4	11.6	6.9
980/81	6.9	44.9	23.5	49.6	12.8	14.1	8.1
1981/82	8.1	48.2	28.5	55.7	14.3	13.7	7.4
1982/83	7.4	43.9	25.2	51.1	12.3	11.6	6.1
1983/84	6.1	46.5	25.8	52.9	13.1	13.0	6.5
984/85	6.5	44.2	26.3	52.0	12.9	13.1	6.1
1985/86	6.1	42.2	25.2	48.6	9.6	8.7	5.1
1986/87 3/	5.1	40.6	23.1	45.9	8.0	8.0	4.5
987/88 4/	4.5	39.0	23.8	45.8	9.9	8.4	4.4
BARLEY		1 3					
1975/76	20.1	132.9	92.1	135.8	13.5	NA	18.0
1976/77	18.0	166.5	112.6	164.4	13.5	NA	21.2
1977/78	21.2	154.6	108.3	157.6	14.4	NA	18.5
1978/79	18.5	173.5	117.1	168.9	13.5	NA	21.9
1979/80	21.9	152.4	113.1	160.2	16.6	11.3	16.9
1980/81	16.9	155.4	107.5	156.0	16.3	14.0	17.1
1981/82	17.1	144.9	105.5	149.6	20.4	14.1	14.4
1982/83	14.4	155.6	107.9	152.9	17.2	13.3	17.9
1983/84	17.9	153.6	115.4	158.9		16.5	13.0
1984/85	13.0	161.7	115.9	157.6		18.0	18.7
1985/86	18.7	164.5	120.4	162.0	22.2	18.4	22.1
	22.1	168.8	120.4	168.6		18.0	25.7
1986/87 3/ 1987/88 4/							
_	25.7	174.3	130.1	178.7	21.6	17.8	23.7
TOTAL COARSE	GRAINS 5/						
1975/76	69.5	463.6	277.7	510.5		75.2	71.3
1976/77	71.3	510.1	305.8	551.9		83.9	78.3
1977/78	78.3	495.2	306.5	554.2		89.0	75.3
1978/79	75.3	533.3	329.2	584.8		93.1	81.0
1979/80	81.0	506.0	336.1	583.7		99.5	77.4
1980/81	77.4	533.6	342.3	591.3		108.3	81.5
1981/82	77.4 81.5	519.7	352.1	593.0	114.6	97.8	72.8
1982/83	72.8	533.2	357.5	593.4		90.0	72.7
1983/84	72.7	550.1	365.3	604.1		93.3	70.5
1984/85	70.5		378.8				
1985/86		576.8		617.5		100.4	85.1
	85.1	568.1	389.3	609.5		83.2	80.8
1986/87 3/	80.8	580.0 576.6	395.2 392.4	623.8		83.6 86.5	81.7 76.3

Source: Compiled from World Grain Situation and Outlook, FAS, and USDA data.

NA = not available.

1/ Aggregated on basis of local marketing years, except for adjusted imports. 2/ Based on Oct/Sept. trade year and excludes intra-EC trade. 3/ Preliminary. 4/ Forecast.

5/ Also includes oats, rye, millet, and mixed grains.

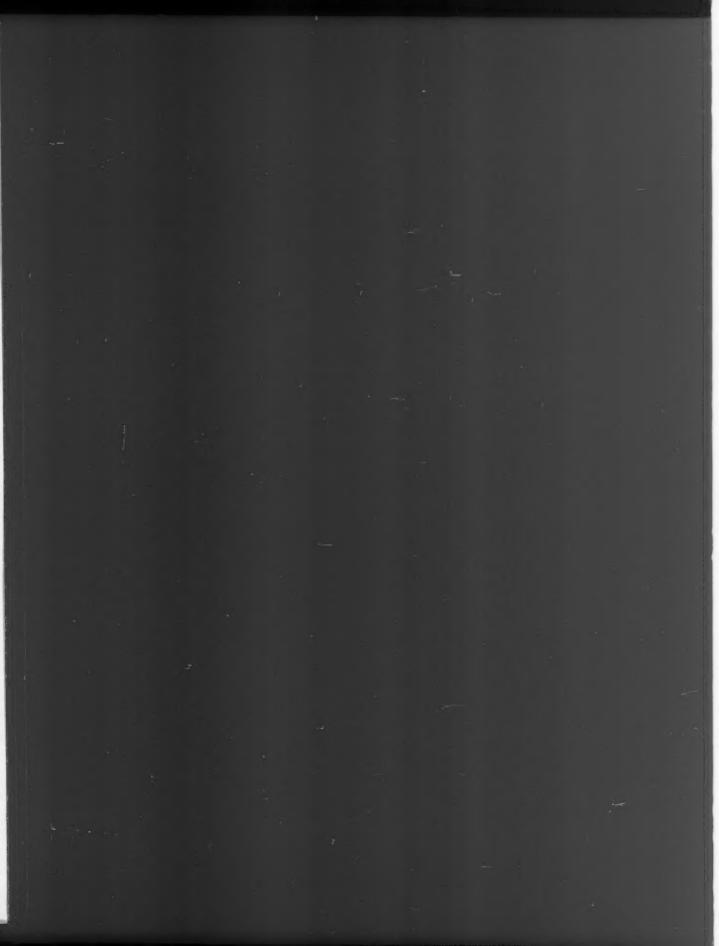


Table 4.--Corn: Marketing year supply and dis

		Suppl	у		:	
Year	: Begin- :		: :			mesti
		Produc-		Total	: Food, :	
September I	: stocks :	tion	: :		:alcohol, and:	Seed
	:		: :		: industrial :	
						M
1976/77	(77.5	6 200 2	0.5	6 022 O	170 7	
SeptNov.	633.2	6,289.2	0.5	6,922.9	130.3	
DecFeb. MarMay	: 5,387.2 : 3,848.2		0.4	5,387.6 3,848.8	117.9	16.1
June-Aug.	: 2,370.0		1.0	2,371.0	142.0	4.0
	:					
Mkt. year	: 633.2	6,289.2	2.5	6,924.9	522.1	20.1
1977/78	1 175 6	. FOE 0		7 (4) 7	170.0	
SeptNov.	: 1,135.6	6,505.0	0.7	7,641.3	138.9	
DecFeb.	: 6,086.7		0.7	6,087.4	128.6	
MarMay	: 4,481.6		0.6	4,482.2	141.7	15.6
June Aug.	: 2,861.1	,000 000 000	0.6	2,861.7	152.3	3.9
Mkt. year	: 1,135.6	6,505.0	2.6	7,643.2	561.5	19.5
1978/79	:				4	
SeptNov.	: 1,435.9	7,267.9	0.2	8,704.0	146.7	
DecFeb.	: 6,928.2		0.4	6,928.6	135.1	
MarMey	: 5,151.1	-	0.3	5,151.4	157.5	15.6
June-Aug.	: 3,287.2		0.4	3,287.6	149.2	3.9
Mkt. year	: 1,435.9	7,267.9	1.3	8,705.1	588.5	19.5
1979/80	•					
SeptNov.	: 1,709.5	7,928.1	0.3	9,637.9	151.5	
DecFeb.	: 7,594.1		0.2	7,594.3	140.3	
MarHay	: 5,557.0		0.2	5,557.2	159.6	16.0
June-Aug.	: 3,644.3		0.2	3,644.5		4.0
Mkt. year	: 1,709.5	7,928.1	0.9	9,638.5	619.5	20.0
1980/81	1					
SeptNov.	: 2,034.3	6,639.4	0.5	8,674.2	168.7	-
DecFeb.	: 6,595.9		0.2	6,596.1	158.0	-
MarMay	: 4,662.4		0.2	4,662.6		16.2
June-Aug.	: 2,773.5	-	0.5	2,774.0		4.0
Mkt. yeer	2,034.3	6,639.4	1.4	8,675.1	697.8	20.2
1981/82	:					
SeptNov.	: 1,392.1	8,118.7	0.2	9,511.0	188.8	
DecFeb.	: 7,601.1		0.4	7,601.5	180.2	-
MarMay	: 5,766.4		0.2	5,766.6		16.0
June Aug.	: 3,880.1		0.3	3,880.4	206.9	3.4
Mkt. year	: 1,392.1	8,118.7	1.1	9,511.9	777.8	19.4

and disappearance, specified periods, 1975/76-1986/87

-				pearance				ding stock	S
d:	Seed	0	Feed	: Total	Exports	: Total : disap- :pearance	:Govt. :	Privately: owned: <u>l</u> /:	Total
:					0	•	: :	•	
	. 19	111	lion bushe	IS					
			933.9	1,064.2	471.5	1,535.7	0.2	5,387.0	5,387.2
			1,036.2	1,154.1	385.3	1,539.4	0.1	3,848.1	3,848.2
	16.1		897.2	1,045.2	433.6	1,478.8	0.3	2,369.7	2,370.0
	4.0		723.1	869.1	366.3	1,235.4	0.2	1,135.4	1,135.6
	20.1		3,590.4	4,132.6	1,656.7	5,789.3	0.2	1,135.4	1,135.6
			1,013.5	1,152.4	402.2	1,554.6	0.2	6,086.5	6,086.7
			1,066.4	1,195.0	410.8		0.4	4,481.2	4,481.6
	15.6		935.6	1,092.9			0.4	2,860.7	2,861.1
	3.9		701.7	857.9				1,432.4	1,435.9
	19.5		3,717.2	4,298.2	1,909.1	6,207.3	3.5	1,432.4	1,435.9
			1 157 0	1 704 4	471.0	1 775 0	60.7	6 063 0	c 000 0
	-		1,157.9	1,304.6				6,867.9	6,928.2
	15.6		1,226.7	1,361.8				5,055.9	5,151.1
	3.9		745.7	1,306.7				1,609.0	3,287.2
	19.5		4,263.9	4,871.9	2,123.7			1,609.0	1,709.5
			1,267.5	1,419.0	624.8	2,043.8	99.6	7,494.5	7,594.1
			1,296.2	1,436.5	600.8	2,037.3	100.1	5,456.9	5,557.0
	16.0)	1,146.1	1,321.7	591.2	1,912.9	213.5	3,430.8	3,644.3
	4.0)	839.5	1,011.6	598.6	1,610.2	260.1	1,774.2	2,034.3
	20.0)	4,549.3	5,188.8	2,415.4	7,604.2	260.1	1,774.2	2,034.3
			1,217.9	1,386.6	691.7	2,078.3	256.7	6,339.2	6,595.9
			1,126.3	1,284.3				4,410.1	4,662.4
	16.2		1,072.4	1,270.3				2,521.9	2,773.5
	4.0		740.5	933.9				1,150.3	1,392.
	20.2	2	4,157.1	4,875.1	2,407.9	7,283.0	241.8	1,150.3	1,392.1
									-
			1,198.4	1,387.2				7,357.5	7,601.1
	16.0		1,182.0	1,362.2				5,507.1	5,766.4
	16.0		1,069.6	1,287.5				3,610.4	3,880.
	3.4	ŀ	718.6	928.9	414.9	1,343.8	280.1	2,256.5	2,536.6
	19.4	1	4,168.6	4,965.8	2,009.5	6,975.3	280.1	2,256.5	2,536.6
-									Confinue

Table 4.--Corn: Marketing year supply and disappearan

	: Supply :										
Year	: Begin-	:	: :			omestic	: 1				
beginning	: ning	: Produc-	:Imports:	Total							
September 1	: stocks	: tion	: :		:alcohol, and:	Seed :					
	*	:	:		: industrial :	Mil 217.5 201.6 226.6 234.6 2.9 880.3 14.5 238.6 2-222.8 247.3 247.3 256.0 19.1 249.7 241.5 283.8 17.0 295.0 4.2 070.0 21.2 278.0 295.0 4.2 070.0 21.2 278.0 293.0 16.1 305.0 3.4 140.0 19.5					
	:										
	:					Mil					
1982/83	:										
SeptNov.	: 2,536.6	8,235.1	0.3	10,772.0		44 75 7400					
DecFeb.	: 8,906.3	*****	0.1	8,906.4							
MarMay	: 6,899.2	40 ~~ 400	0.2	6,899.4							
June-Aug.	: 4,923.9		0.1	4,924.0	234.6	2.9					
Mkt. year	: 2,536.6	8,235.1	0.7	10,772.4	880.3	14.5					
1007/04											
1983/84	7 507	4 174 7	0.5	7 (00 7	270 (
SeptNov.	: 3,523.1	4,174.7	0.5	7,698.3							
DecFeb.	: 5,651.7		0.6	5,652.3							
MarMay	: 3,865.0		1.0	3,866.0							
June-Aug.	: 2,145.1		0.6	2,145.7	247.5	2.5					
Mkt. year	: 3,523.1	4,174.7	2.7	7,700.5	956.0	19.1					
1984/85	:										
SeptNov.	: 1,006.3	7,674.0	0.9	8,681.2	249.7						
DecFeb.	: 6,631.1		0.4	6,631.5							
MarMay	: 4,623.2	107.00.00	1.1	4,624.3		17.0					
June-Aug.	: 2,835.5		1.1	2,836.6	295.0	4.2					
Mkt. year	: 1,006.3	7,674.0	3.5	8,683.8	1,070.0	21.2					
1985/86	:										
SeptNov.	: 1,648.2	8,876.7	1.0	10,525.9	278 0						
DecFeb.	: 8,614.7	0,0,0,,	1.3	8,616.0							
MarMay	: 6,587.1		2.3	6,589.4		16.1					
June-Aug.	: 4,990.0			4,996.0							
Mkt. year	: 1,648.2	8,876.7	10.6	10,535.5	1,140.0	19.5					
1007 107	:										
1986/87	4 070 5	0 240 0	0.0	10 000 0	200 0						
SeptNov.	: 4,039.5	8,249.9		12,290.2							
DecFeb.	:10,305.5	Per can della	0.3	10,305.8							
MarMay	: 8,248.2			8,248.7		~~~					
June-Aug.	: 6,332.2	*	.5	6,332.7	315.0	.2					
Mkt. year	: 4,039.5	8,249.9	2.1	12,291.5	1,175.0	15.6					
1987/88	*										
SeptNov	: 4,881.7	7,064.1	.5	11,946.3	292.0	******					
Mkt. year 2/	1: 4,881.7	7,064.1	2.0	11,947.8		1225.0					

appearance, specified periods, 1982/83 to date--continued

	Disap	pe	arance		:		ding stoc	
mestic	use			1	: Total :		Privately	:
Seed :	Feed		Total	:Exports	: disap- :			
, 1000	residual		IOIai	:	:pearance:		-	
	residuai			•	: :			•
Mil	lion bushe	Is						
40 FE FEE	1,202.0		1,419.5	446.2	1,865.7	372.0	8,534.3	8,906.3
-	1,293.6		1,495.2	512.0	2,007.2	470.8	6,428.4	6,899.2
11.6	1,258.3		1,496.5	479.0	1,975.5	491.7	4,432.2	4,923.9
2.9	766.8		1,004.3	396.6	1,400.9	1,142.7	2,380.4	3,523.1
14 6	4 500 7		F 415 F	1 077 0	7 040 7	1 140 7	0 700 4	7 507 1
14.5	4,520.7		5,415.5	1,833.8	7,249.3	1,142.7	2,380.4	3,523.1
ear feet date	1,311.0		1,549.6	497.0	2,046.6	1.227.0	4,424.7	5,651.7
	1,056.0		1,278.8	508.5	1,787.3		2,651.0	3,865.0
16.8	939.5		1,203.6	517.3	1,720.9		1,950.1	2,145.1
2.3	511.1		760.7	378.7	1,139.4		804.8	1,006.3
~00	21101		100.1	2113.1	1,100.4	201.3	004.0	1,000.3
19.1	3,817.6		4,792.7	1,901.5	6,694.2	201.5	804.8	1,006.3
				504.0	0.050.1	004 7		
	1,294.2		1,543.9	506.2	2,050.1	206.7	6,424.4	6,631.1
	1,182.9		1,424.4	583.9		209.7	4,413.5	4,623.2
17.0	1,009.1		1,309.9	478.9	1,788.8	221.7	2,613.8	2,835.5
4.2	592.8		892.0	296.4	1,188.4	224.9	1,423.3	1,648.2
21.2	4 070 0		E 170 2	1 OCE A	7 075 6	224 0	1 427 7	1 640 7
41.2	4,079.0		5,170.2	1,865.4	7,035.6	224.9	1,423.3	1,648.2
	1,215.5		1,493.5	417.7	1,911.2	388.6	8,226.1	8,614.7
400 ma . dan	1,299.6		1,563.6	465.3	2,028.9	509.4	6,077.7	6,587.1
16.1	1,085.9		1,395.0	204.4	1,599.4	550.9	4,439.1	4,990.0
3.4	494.3		802.7	153.8	956.5	545.7	3,493.8	4,039.5
10.5	A 005 ¥		E 254 0	1 241 2	6 406 0	5.45 T	7 407 0	A 070 F
19.5	4,095.3		5,254.8	1,241.2	6,496.0	545.7	3,493.8	4,039.5
-	1,383.6		1,663.6	321.1	1,984.7	968.2	9,335.9	10,305.5
e	1,472.2		1,742.2	315.4			5,884.6	8,248.2
15.4	1,090.9		1,416.3			1,491.5	4,840.7	6,332.2
.2	768.1		1,083.3			1,443.0	3,439.0	4,881.7
15.6	4,714.8		5,905.4	1,504.4	7,409.8	1,443.0	3,439.0	4,881.7
*****	1,489.4		1,781.4	398.0	2,179.4	1,683.4	8,083.5	9,766.9
25 0	4 000 0		C125 A	1 700 0	7 025 0			4 122 0
25.0	4,900.0		6125.0	1,700.0	7,825.0			4,122.8

Table 5. -- Sorghum: Marketing year supply and disappearance,

	:	Supp	ly		:		Disapp	e
	: Begin-	:	1			omestic		
	: ning		:Imports:	Total	: Food,	:	: Feed	
SeptMay June-Aug. Mkt. year 1976/77 SeptMay June-Aug. Mkt. year 1977/78 SeptMay June-Aug. Mkt. year 1978/79 SeptMay June-Aug. Mkt. year 1978/79 SeptMay June-Aug. Mkt. year 1979/80 SeptMay June-Aug. Mkt. year 1980/81 SeptMay June-Aug. Mkt. year 1980/82 SeptMay June-Aug.	: stocks	: tion	: :		: alcohol, and			9
	:	•	: :		: industrial	:	:residual	:
						Mi	llion bushe	11
	:							
1975/76								
SeptMay	: 65.3	754.4	0	819.7	6.9	1.6		
June-Aug.	: 154.0	0	0	154.0	1.9	0.7	16.7	
Mkt. year	: 65.3	754.4	0	819.7	8.8	2.3	494.1	
1976/77	:							
	: 82.3	710.8	0	793.1	6.7	1.4	385.0	
	: 195.7	0	0	195.7	1.9	0.6	26.2	
	:							
Mkt. year	: 82.3	710.8	0	793.1	8.6	2.0	411.2	
1977/78	:							
SeptMay	: 117.3	780.9	0	898.2	7.1	1.4	393.7	
	: 319.1	0	0	319.1	2.3	0.6	53.8	
Mkt. year	: 117.3	780.9	O	898.2	9.4	2.0	447.5	
1079 /70								
	: 216.4	731.3	0	947.7	7.7	1.3	465.9	
	: 322.2	/31.3	0	322.2	2.3	0.5		
June-Aug.	: 222.2	U	U	326.2	2.3	0.5	72.0	
Mkt. year	: 216.4	731.3	0	947.7	10.0	1.8	537.9	
1979/80	:							
	: 207.9	807.4	0	1,015.3	8.3	1.4	460.8	
	: 277.6	0	0	277.6		0.6		
Mkt. year	: 207.9	807.4	0	1,015.3	10.4	2.0	495.4	
1980/81	:							
	: 177.9	579.3	0	757.2	7.2	1.4	352.6	
	: 184.5	0	Ö	184.5		0.6		
Julie-Aug.	: 104.7	U	U	104.5	1.5	0.0	-27.7	
Mkt. year	: 177.9	579.3	0	757.2	9.1	.2.0	322.7	
1981/82								
SeptMay	: 130.3	875.8	0	1,006.1	6.8	1.4	4 413.5	
June-Aug.	: 379.5	0	0	379.5	2.0	0.6	3.5	
Mkt. year	: 130.3	875.8	0	1,006.1	8.8	2.0	417.0	

rance, specified periods, 1975/76-1986/87

Disap	pea	rance			: En	ding stock	ks
			:			Privately	
eed	:		:Exports	: disap-			: Total
nd		Total	:	:pearance	:owned:	1/	:
idual	:		:	8	: :		0 0
bush	els						
77.4		485.9	179.8	665.7	0	154.0	154.0
16.7		19.3	52.4	71.7	0	82.3	82.3
94.1		505.2	232.2	737.4	0	82.3	82.3
85.0		393.1	204.3	597.4	0.3	195.4	195.7
26.2		28.7	49.7	78.4	0.2	117.1	117.3
11.2		421.8	254.0	675.8	0.2	117.1	117.3
93.7		402.2	176.9	579.1	0.3	318.8	319.1
53.8		56.7	46.0	102.7	5.0	211.4	216.4
47.5		458.9	222.9	681.8	5.0	211.4	216.4
65.9		474.9	150.6	625.5		279.4	322.2
72.0		74.8	39.5	114.3	43.7	164.2	207.9
37.9		549.7	190.1	739.8	43.7	164.2	207.9
8.09		470.5	267.2	737.7		232.0	277.6
34.6		37.3	62.4	99.7	45.6	132.3	177.9
195.4		507.8	329.6	837.4	45.6	132.3	177.9
552.6		361.2	211.5	572.7		140.7	184.5
-29.9		-27.4	81.6	54.2	41.5	88.8	130.3
322.7		333.8	293.1	626.9	41.5	88.8	130.3
413.5		421.7	204.9				379.5
3.5		6.1	54.8	60.9	41.8	276.8	318.6
417.0		427.8	259.7	687.5	41.8	276.8	318.6

Table 5.--Sorghum: Marketing year supply and disappearance, s

*		Supp	У		*		Dis
Year :	Begin-		: :		:	Domestic	
beginning : September 1 :		: Produc- : tion	:Imports:	Total	: Food, : alcohol, ar : industrial	d : Seed	: Feed : and :residu
						Mi	llion bu
1982/83							
SeptMay :	318.6	835.1	0	1,153.7	6.0	0.9	
June-Aug. :	529.1	0	0	529.1	1.9	0.9	41.
Mkt. year	318.6	835.1	0	1,153.7	7.9	1.8	494.
1983/84							
SeptMay :	439.1	487.5	0	926.6	5.7	1.1	356.
June-Aug. :	368.9	0	0.1	369.0	2.0	1.2	
Mkt. year	439.1	487.5	0.1	926.7	7.7	2.3	384
1984/85							
SeptMay	287.4	866.2	0.1	1.153.7	12.4	1.5	542.
June-Aug.	360.8	0	0	360.8	2.9	0.5	
Mkt. year	287.4	866.2	0.1	1,153.7	15.3	2.0	539
1985/86							
SeptMay	300.2	1,120.3	0	1,420.5	22.1	1.2	626
June-Aug.	: 630.0	0	0	630.0	3.9	0.5	36
Mkt. year	300.2	1,120.3	0	1,420.5	26.0	1.7	663
mki. year	: 300.2	1,120.3	U	1,420.5	20.0	1.1	. 000
1986/87	:						
SeptMay	: 551.0	938.1	0	1,489.1	11.0	1.0	498
June-Aug.	: 823.7	0	0	823.7	2.0	.0	6 46
Mkt. year	: 551.0	941.6	0	1,492.6	13.0	1.0	5 544
1007/00	:						
1987/88	: 731.5	740.9	. 0	1 472 4		15.0	
Mkt. year 2/	: /31.2	740.9	. 0	1,472.4		-15.0 -	550

^{1/} Includes quantity under loan and farmer-owned reserve. 2/ Projected. \bullet

rance, specified periods, 1982/83 to date--continued

	Disapp	pea	rance			: [nding :	stocks	
	se			:	: Total	:	:Priva		
:	Feed	1		:Exports	: disap-	:Govt.			Total
0	and	:	Total		:pearance	:owned	: 1/	:	
:1	residual	:		:	•	:	1	:	
11	ion bush	els							
į.	453.5		460.4	164.2	642.6	54.0			529.1
	41.3		44.1	45.9	90.0	171.5	267	.6	439.1
	494.8		504.5	210.1	714.6	171.5	267	.6	439.1
	356.5		363.3	194.4	557.7	78.0			368.9
	28.2		31.4	50.2	81.6	102.8	184	.6	287.4
	384.7		394.7	244.6	639.3	102.8	184	.6	287.4
	542.2		556.1	236.8	792.9	111.1			360.8
•	-2.9		0.5	60.1	60.6	112.1	188	i. I	300.2
)	539.3		556.6	296.9	853.5	112.1	188	1.1	300.2
,	626.9		650.2	140.3	790.5	181.4	447	1.5	630.0
5	36.9		41.3	37.7	79.0	207.2			551.0
7	663.8		691.5	178.0	869.5	207.2	343	3.8	551.0
0	498.6 46.1		510.6 48.7	154.8	665.4	400.4	423	3.3	823.7
5	544.7		559.3	198.3	757.6	408.9	322	2.6	731.5
	550.0		565.0	225.0	790.0				682.4

ted.

Table 6. -- Barley: Marketing year supply and disappea

			Si	upp ly		:		Di
Year	:	Begin- :		:	:		Domesti	C US
beginning June 1		ning : stocks :	Produc- tion	: Imports	: Total :	: Food, : alcohol, and : industrial	: Seed	: :re
	:						Mi	llio
975/76	:	92.0	379.2	15.7	486.9	130.5	15.7	
976/77		128.4	383.0	10.8	522.2	137.0	18.2	
977/78	:	126.4	427.8	9.4	563.6	138.6	16.7	
978/79		173.1	454.8	10.5	638.4	153.7	13.6	
979/80	:	228.0	383.2	11.8	623.0	157.9	14.0	
1980/81	:	192.1	361.1	10.2	563.4	162.3	13.2	
1981/82		137.3	473.5	9.6	620.4	158.0	16.3	
1982/83	:	147.8	515.9	10.7	674.4	152.7	17.4	
1983/84	:	216.7	508.9	7.1	732.7	149.5	19.5	
1984/85		189.4	599.2	10.1	798.7	149.0	21.6	
1985/86		247.4	591.4	9.0	847.8	147.2	21.4	
1986/87		324.8	610.5	8.7	944.0	156.1	17.9	
1987/88 3/	:	335.6	527.0	5.3	867.9	- 175.	- 0	

^{1/} Quarterly supply and disappearance estimates discontinued because bar 2/ Includes quantity under loan and farmer-owned reserve. 3/ Projected.

Table 7.--Oats: Marketing year supply and disappea

	:		-	Suj	pply			:				Di
Year	:	Begin-			:			:		Do	mestic	us
beginning June I	:	ning stocks		Produc- tion	: Imports	:	Total	: Food and : industrial		: Seed		*
	:				:	8		*		:		:re
	:										Mil	IIIc
1975/76		224.0		639.0	0.7		863.7		44.0		42.7	
1976/77		204.8		540.4	1.4		746.6		42.4		45.9	
1977/78		164.3		752.8	2.2		919.3		42.0		42.5	
1978/79		313.1		581.7	0.7		895.5		41.0		36.1	
1979/80	:	280.0		526.7	0.9		807.6		40.7		34.6	
1980/81		236.4		458.8	1.3		696.5		41.0		33.0	
1981/82	:	177.0		509.5	1.6		688.1		41.2		35.4	
1982/83		151.9		592.6	3.9		748.4		41.7		43.3	
1983/84	:	219.8		477.0	30.1		726.9		40.9		31.9	
1984/85		181.1		473.7	34.0		688.8		41.0		34.6	
1985/86		179.9		520.8	27.5		728.2		44.0		38.4	
1986/87		183.7		386.4	33.3		603.4		45.0		28.1	
1987/88 3/	:	132.7		373.8	35.0		541.5		- 75	.0	-	

^{1/} Quarterly supply and disappearance estimates discontinued because oa 2/ Includes quantity under loan and farmer-owned reserve. 3/ Projected.

disappearance, area, and prices, 1975/76-1987/88 1/

Disappearance

stic	use			:		: Total		:	Privatel	V:	
eed	: Feed : and :residual	:	Total	: ::	Exports	: disap- :pearance :	 Govt. owned		owned 2/	:	Total
Mil	llion bush	el:	s								
5.7	188.5		334.7		23.8	358.5			128.4		128.4
8.2	174.4		329.6		66.2	395.8			126.4		126.4
6.7	178.0		333.3		57.2	390.5			173.1		173.1
3.6	217.4		384.7		25.7	410.4	2.5		225.5		228.0
4.0	204.2		376.1		54.8	430.9	3.2		188.9		192.1
3.2	173.9		349.4		76.7	426.1	3.4		133.9		137.3
6.3	198.2		372.5		100.1	472.6	3.3		144.5		147.8
7.4	240.4		410.5		47.2	457.7	6.0		210.7		216.7
9.5	282.8		451.8		91.5	543.3	11.9		177.5		189.4
11.6	303.9		474.5		76.8	551.3	14.6		232.8		247.4
21.4	332.6		501.2		21.8	523.0	57.4		267.4		324.8
7.9	277.7		471.7		136.7	608.4	75.5		260.9		335.6
	275.0		450.0		125.0	575.0					292.9

Ending stocks May 31

ause barley has been dropped from quarterly grain stocks survey.

disappearance, area, and prices, 1975/76-1987/88 1/

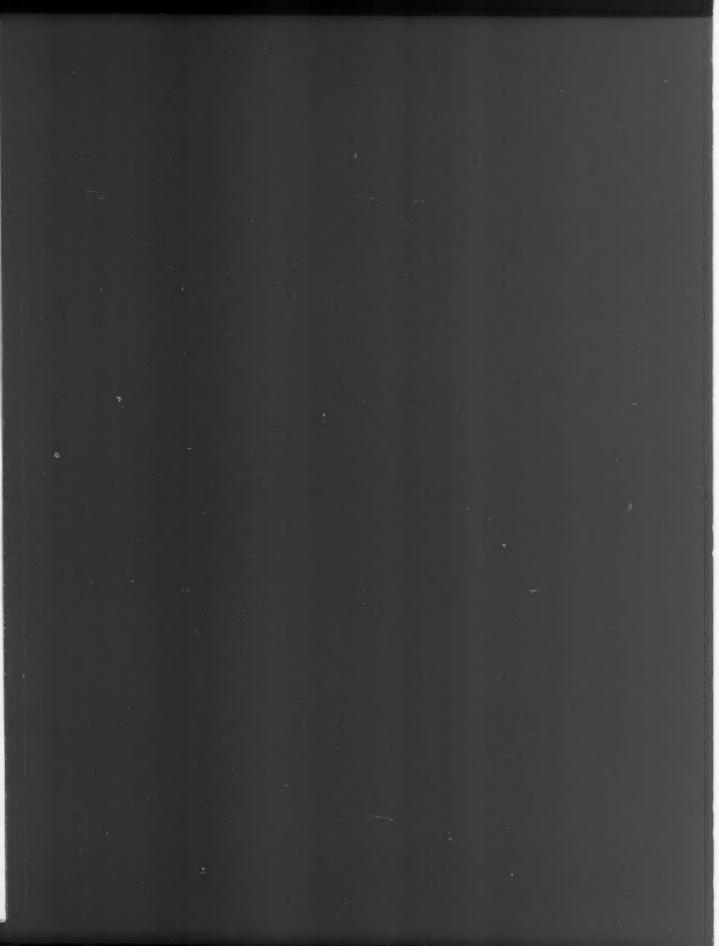
	Disappear	rance				0	End	no	stocks M	lay	31
estic	use		:		: Total			*	Privately	1:	
Seed	: Feed : and :residual	: Total	::::	Exports	: disap- :pearance :		Govt. owned		owned 2/	:	Total
Mi	llion bush	els									
42.7	558.5	645.2		13.7	658.9		24.9		179.9		204.8
45.9	484.4	572.7		9.6	582.3				164.3		164.3
42.5	509.4	593.9		12.3	606.2				313.1		313.1
36.1	525.7	602.8		12.7	615.5		2.7		277.3		280.0
34.6	491.8	567.1		4.1	571.2		2.7		233.7		236.4
33.0	432.2	506.2		13.3	519.5		2.3		174.7		177.0
35.4	453.0	529.6		6.6	536.2		0.7		151.2		151.9
43.3	440.6	525.6		3.0	528.6		0.7		219.1		219.8
31.9	470.9	543.7		2.1	545.8		1.5		179.6		181.1
34.6	432.0	507.6		1.3	508.9		1.4		178.5		179.9
38.4	459.9	542.3		2.2	544.5		1.9		181.8		183.7
28.1	394.8	467.9		2.8	470.7		3.5		129.2		132.7
	350.0	425.0		1.0	426.0						115.5

ause oats has been dropped from quarterly grain stocks survey.

Table 8.--Average prices received by farmers, United States, by months, and loan rate, 1970-87 1/

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average 2/	Loan
Corn						Do	ollars ;	per bush	nel					
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	1.38 1.11 1.22 2.15 3.30 2.76 2.60 1.60 1.98 2.51	1.34 1.00 1.19 2.17 3.45 2.62 2.33 1.67 1.97 2.41	1.29 .97 1.20 2.18 3.32 2.33 2.02 1.88 2.02 2.27	1.36 1.08 1.42 2.39 3.27 2.37 2.24 1.97 2.09 2.38	1.42 1.09 1.39 2.59 3.07 2.44 2.34 2.00 2.11 2.45	1.43 1.09 1.35 2.76 2.86 2.48 2.34 2.03 2.18 2.39	1.43 1.10 1.37 2.68 2.67 2.50 2.35 2.15 2.22 2.40	1.41 1.13 1.42 2.41 2.68 2.46 2.31 2.24 2.27 2.36	1.38 1.15 1.61 2.45 2.66 2.61 2.25 2.29 2.35 2.42	1.43 1.13 1.99 2.57 2.68 2.74 2.12 2.28 2.49 2.49	1.36 1.14 2.03 2.91 2.72 2.82 1.88 2.16 2.64 2.73	1.19 1.15 2.68 3.37 2.95 2.64 1.63 2.01 2.54 2.92	1.33 1.08 1.57 2.55 3.02 2.54 2.15 2.02 2.25 2.48	1.05 1.05 1.05 1.05 1.10 1.10 1.50 2.00 2.00 2.10
1980 1981 1982 1983 1984 1985 1986 1987	3.01 2.55 2.15 3.32 2.90 2.29 1.45 1.49	2.99 2.45 1.98 3.15 2.65 2.11 1.40 1.56	3.10 2.34 2.13 3.17 2.55 2.21 1.47 1.62	3.19 2.39 2.26 3.15 2.56 2.29 1.50 1.72	3.19 2.54 2.36 3.15 2.64 2.33 1.47 1.77*	3.22 2.44 2.56 3.11 2.62 2.32 1.42	3.25 2.46 2.71 3.21 2.67 2.29 1.47	3.24 2.55 2.95 3.32 2.70 2.30 1.52	3.24 2.60 3.03 3.34 2.68 2.39 1.66	3.17 2.57 3.04 3.36 2.64 2.32 1.69	3.14 2.50 3.13 3.30 2.60 2.00 1.60	2.87 2.30 3.35 3.12 2.44 1.73 1.47	3.12 2.47 2.55 3.21 2.63 2.23 1.45	2.25 2.40 2.55 2.65 2.55 2.55 1.92 1.82
Sorghun	n					1	Oollars	per cw	t					
1970 1971 1972 1973 1974 1975 1976 1977 1978	2.07 2.01 2.11 3.87 5.30 4.56 4.20 2.52 3.22 4.24	2.02 1.76 2.09 3.65 5.78 4.43 3.68 2.80 3.35 3.90	2.02 1.78 2.19 3.66 5.85 4.05 3.30 3.03 3.45 3.99	2.04 1.86 2.72 3.83 5.33 4.00 3.51 3.05 3.58 3.90	2.10 1.89 2.72 4.03 4.96 4.06 3.59 3.15 3.54 4.05	2.16 1.86 2.60 4.38 4.21 4.09 3.51 3.20 3.55 5.98	2.17 1.87 2.60 4.25 4.03 4.14 3.55 3.39 3.54 4.05	2.19 1.87 2.56 3.78 4.15 4.14 3.44 3.62 3.58 3.96	2.33 1.88 2.66 3.59 4.21 4.14 3.20 3.66 3.66 4.04	2.43 1.90 3.10 3.59 4.15 4.29 3.12 3.64 4.30 4.49	2.37 1.98 3.46 4.15 4.25 4.53 2.84 3.50 4.46 4.95	2.27 2.05 3.64 5.07 4.69 4.03 2.63 3.37 4.27 5.12	2.04 1.86 2.45 3.82 4.95 4.23 3.62 3.25 3.59 4.19	1.61 1.73 1.79 1.79 1.88 1.88 2.55 3.39 3.39 3.57
1980 1981 1982 1983 1984 1985 1986 1987	5.12 4.07 3.80 5.26 4.24 3.27 2.36 2.43	5.36 3.90 3.70 5.01 4.05 3.30 2.34 2.48	5.48 3.87 3.78 4.98 4.05 3.47 2.38 2.69	5.49 3.95 3.97 4.93 4.15 3.76 2.41 2.73	5.48 4.09 4.09 4.92 4.16 3.69 2.37 2.75*	5.33 4.08 4.42 4.74 4.10 3.55 2.36	5.17 4.00 4.67 4.85 4.24 3.67 2.45	5.25 4.10 4.92 5.00 4.46 3.80 2.58	5.16 4.35 5.05 5.08 4.54 3.99 2.69	5.03 4.17 5.05 4.94 4.52 3.43 2.79	4.84 3.96 5.03 4.64 4.04 3.06 2.66	4.55 3.95 5.29 4.58 3.74 2.66 2.52	5.19 4.01 4.41 4.89 4.15 3.45 2.39	3.82 4.07 4.32 4.50 4.32 4.32 3.25 3.11
Year	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Average 2/	Loan
Oats						Dolla	rs per	bushel						
1970 1971 1972 1973 1974 1975 1976 1977 1978	.61 .72 .67 .90 1.30 1.49 1.64 1.29 1.16	.58 .63 .66 .B6 1.37 1.45 1.64 1.02 1.08	.57 .56 .62 1.13 1.55 1.44 1.48 .93 1.06	.61 .57 .64 1.09 1.57 1.45 1.49 .94 1.06	.61 .58 .67 1.14 1.68 1.41 1.46 1.04 1.08	.63 .60 .70 1.13 1.70 1.40 1.45 1.10	.65 .62 .81 1.20 1.70 1.42 1.51 1.13 1.19	.67 .64 .81 1.32 1.62 1.44 1.58 1.18 1.22	.68 .64 .78 1.44 1.58 1.46 1.63 1.22 1.25	.66 .64 .77 1.40 1.46 1.46 1.64 1.17 1.27	.63 .64 .77 1.24 1.51 1.44 1.64 1.19 1.29	.66 .64 .80 1.27 1.54 1.47 1.52 1.24 1.29	.62 .60 .72 1.18 1.53 1.46 1.56 1.09 1.20	.63 .54 .54 .54 .54 .72 1.03 1.03
1980 1981 1982 1983 1984 1985 1986	1.43 1.99 1.88 1.51 1.80 1.59 1.10	1.50 1.84 1.57 1.46 1.68 1.31 .90 1.29	1.53 1.72 1.39 1.45 1.62 1.16 .86	1.63 1.74 1.35 1.55 1.60 1.10 .99	1.65 1.78 1.32 1.62 1.69 1.08 1.11	1.84 1.88 1.40 1.67 1.64 1.17	1.92 1.94 1.44 1.73 1.72 1.20 1.44	1.98 1.97 1.46 1.81 1.74 1.18 1.46	2.01 1.99 1.48 1.88 1.69 1.16	2.08 2.02 1.49 1.81 1.68 1.14	2.05 1.99 1.54 1.82 1.68 1.13	2.05 1.99 1.54 1.84 1.60 1.21	1.72 1.88 1.49 1.62 1.67 1.23	1.16 1.24 1.31 1.36 1.31 1.31

Confinued-



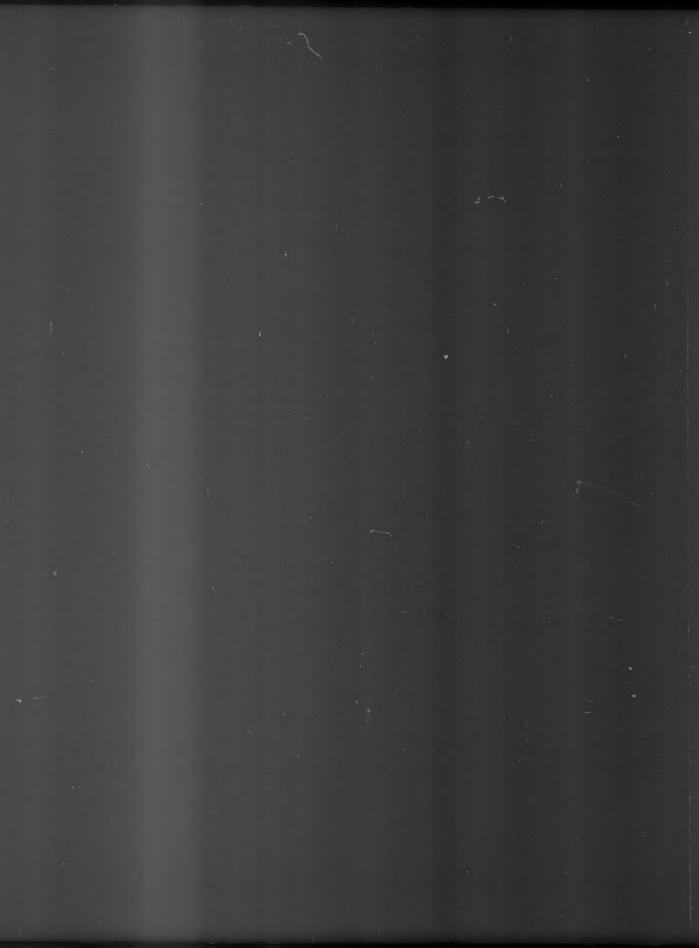


Table 8.--Average prices received by farmers, United States, by months, and loan rate, 1970-87 1/- continued

Year	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Average 2/	Loan
						Dolla	rs per l	bushel						
All bar	ley													
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	.94 1.15 1.09 1.55 2.25 2.30 2.60 1.93 2.04 2.30	.90 1.07 1.04 1.58 2.35 2.35 2.51 1.53 1.83 2.22	.85 .87 .96 2.10 2.78 2.56 2.35 1.53 1.86 2.23	.91 .92 1.07 2.16 2.86 2.69 2.33 1.69 1.85 2.33	.93 .96 1.17 2.23 3.11 2.68 2.22 1.63 1.90 2.32	.96 1.02 1.21 2.10 3.41 2.43 2.11 1.82 1.93 2.40	1.02 1.04 1.32 2.19 3.30 2.35 2.08 1.79 1.90 2.32	1.02 1.04 1.42 2.32 3.17 2.31 2.19 1.90 1.95 2.27	1.03 1.01 1.34 2.52 2.89 2.31 2.19 1.98 1.87 2.23	1.02 .98 1.31 2.61 2.55 2.34 2.25 1.90 1.89 2.18	1.03 .99 1.31 2.15 2.72 2.31 2.22 1.93 1.96 2.15	1.12 1.04 1.39 2.19 2.75 2.41 2.12 2.15 2.07 2.21	.97 .99 1.21 2.14 2.81 2.42 2.25 1.78 1.92 2.27	.83 .86 .86 .90 .90 1.22 1.63
1980 1981 1982 1983 1984 1985 1986 1987	2.36 2.94 2.39 2.32 2.61 2.14 1.57	2.52 2.41 2.16 2.20 2.54 2.08 1.67 1.84	2.59 2.37 2.20 2.34 2.26 1.98 1.51 2.00	2.65 2.44 2.17 2.46 2.25 1.88 1.45 1.87	2.81 2.38 1.98 2.53 2.29 1.96 1.58	2.90 2.49 2.06 2.55 2.25 2.05 1.69 1.89	2.97 2.48 2.19 2.55 2.19 2.07 1.61 1.83	3.09 2.50 2.16 2.55 2.24 2.05 1.60 1.74*	3.05 2.40 2.00 2.47 2.21 1.95 1.63	3.04 2.40 2.09 2.50 2.18 1.88 1.69	3.04 2.42 2.22 2.54 2.16 1.85 1.69	3.00 2.53 2.36 2.78 2.22 1.73 1.76	2.79 2.48 2.18 2.47 2.29 1.98 1.59	1.83 1.95 2.08 2.16 2.08 2.08
	June	July	Aug.	S	ept.	Oct.	Nov.	Dec.	Jan.	F	eb.	Mar.	Apr.	May
Feed ba	rley						1	A PATE					19 -1	
1979 1980 1981 1982 1983 1984 1985 1986 1987	2.38 2.38 2.98 2.52 2.52 2.72 2.26 1.61 1.79	2.22 2.43 2.36 2.23 2.31 2.60 2.05 1.44 1.67	2.21 2.46 2.23 1.98 2.23 2.10 1.75 1.21	2 2 1 2 2 1 1 1	.29 .56 .32 .91 .41 .13 .74 .33	2.20 2.70 2.30 1.87 2.45 2.19 1.85 1.49	2.18 2.75 2.29 1.94 2.51 2.19 1.90 1.62 1.68	2.23 2.96 2.29 1.98 2.52 2.20 2.03 1.59 1.63	2.14 3.09 2.41 2.07 2.58 2.22 2.00 1.56	2 2 1 2 2 1 1	.24 .98 .28 .99 .47 .27 .90	2.16 2.99 2.29 2.08 2.54 2.19 1.83 1.69	2.09 2.90 2.35 2.26 2.55 2.16 1.85	2.21 3.01 2.58 2.43 2.86 2.30 1.81 1.84
Malting	barley													
1979 1980 1981 1982 1983 1984 1985 1986 1987	2.18 2.34 2.86 2.26 2.05 2.52 2.02 1.52 1.68	2.22 2.61 2.48 2.10 2.06 2.48 2.13 2.07 2.04	2.24 2.72 2.58 2.38 2.50 2.50 2.49 2.23	2 2 2 2 2 2 2 1	.40 .81 .66 .58 .69 .52 .33 .85	2.44 2.97 2.49 2.22 2.72 2.52 2.24 1.83 1.90	2.53 3.04 2.68 2.26 2.61 2.39 2.32 1.78 2.08	2.39 2.99 2.63 2.39 2.61 2.18 2.19 1.65 2.01	2.30 3.08 2.70 2.32 2.50 2.29 2.13 1.70	3 2 2 2 2 2 2 1 1	.23 .11 .55 .00 .47 .11 .99	2.20 3.10 2.50 2.09 2.46 2.17 1.93 1.69	2.19 3.14 2.48 2.13 2.54 2.17 1.85 1.65	2.21 2.99 2.42 2.18 2.53 2.10 1.66

^{1/} Prices do not include an allowance for loans outstanding and government purchases. $\underline{2}/$ U.S. season average prices based on monthly prices weighted by monthly marketings. *Preliminary.

Source: Agricultural Prices, Agricultural Statistics Board, USDA.

Table 9.—Cash prices at principal markets, 1971-87

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average
						Dollar	rs per b	ushel					
orn,	no. 2 ye	llow; Gu	If Ports	, export	prices								
971	1.26	1.17	1.24	1.32	1.30	1.31	1.33	1.36	1.38	1.34	1.37	1.41	1.32
972	1.50 2.72 3.59	1.45	1.50	1.70	2.01	2.06	2.03	1.95	2.20	2.58	2.78	3.11	2.07
973	2.72	2.70	2.74	2.87	3.11	3.33	3.21	2.90	2.89	2.96	3.36	3.70	3.04
974	3.59	3.86	5.68	2.87 3.69	3.11	3.06	3.05	3.03	2.90	3.02	3.03	3.29	3.30
975	3.11	2.98	2.80	2.77	2.80	2.88	2.87	2.82	3.00 2.56	3.09	3.08	2.95	2.93
976	2.92	2.70	2.51	2.63	2.83	2.81	2.73	2.68	2.56	2.40	2.16	1.95 2.34 3.02	2.57
977	1.99	2.11	2.37	2.44	2.42	2.57	2.64	2.83	2.86	2.70	2.45	2.34	2.48
978	2.31	2.44	2.54	2.49	2.66	2.72	2.77	2.83	2.85	3.05	3.33	3.64	2.72
979	3.00	3.03	2.96	2.94	2.68	2.89	2.80	2.74	2.81	2.89	3.33	3.04	2.98
980	3.58	3.57	3.72	3.73	3.78	3.64	3.61	3.69	3.58	3.46	3.51	3.23	3.59
981	2.93	2.84	2.83	2.74	2.92	2.87	2.92	3.00	3.00	2.94	2.82	2.58	2.87
982	2.55	2.33	2.62	2.68	2.74	2.98	3.18	3.39	3.40	3.43	3.57	3.88	3.06
983	3.75	3.76	3.74	3.64	3.60	3.48	3.74	3.76	3.71	3.73	3.62	3.52	3.67
984	3.31	3.08	2.98	2.90	3.03	3.04	3.05	3.05	2.96	2.95	2.92	2.67	3.00
985	2.59	2.50	2.69	2.75	2.72	2.63	2.56	2.57	2.68	2.63	2.12	1.85	2.52
986	1.68	1.66	2.08	1.81	1.73	1.70	1.83	1.89	2.06	2.06	1.95	1.81	1.83
987 20rn.	1.86 no. 2 ye			2.11	2.20								
										1 22	1 25	1 26	4 1"
1971	1.06	1.01	1.07	1.17	1.16	1.17	1.17	1.21	1.24	1.22	1.25	2.76	1.17
972	1.35	1.26	1.32	2.63	1.60	1.71	1.57	2.64	2.63	1.22 2.36 2.82	2.46 3.29	3.52	2.7
1973	2.29	2.28	2.40	2.65	2.84	3.03	2.87	2.89	2.03	2.04	2.90	3.10	3.12
974	3.49	3.60	3.45	3.44	3.16	2.66	2.69	2.66	2.76 2.81 2.37	2.86 2.90 2.22	2.91	2.78	2.7
1976	2.69	2.41	2.27	2.44	2.51	2.48	2.48	2.46	2.37	2.22	1.99	1.72	2.3
1977	1.66	1.75	2.14	2.44	2.30	2.24	2.38	2.46	2.49	2.45	1.99	3.10 2.78 1.72 2.12	2.77 2.34 2.2
1978	2.05	2.13	2.25	2.30	2.33	2.41	2.47	2.53	2.60	2.77	2.95	2.75	2.40
1979	2.68	2.59	2.51	2.66	2.50	2.64	2.54	2.53	2.60	2.66	3.01	3.31	2.68
1980	3.26	3.35	3.53	3.59	3.60	3.47	3.42	3.49	3.42	3.33	3.34	3.03	3.40
1981	2.61	2.53	2.59	2.54	2.65	2.61	2.66	2.78	2.78	2.75	2.68	2.42	2.6
1982	2.32	2.12	2.43	2.49	2.52	2.79	2.99	3.24	3.24	3.27	3.39	3.68	2.8
1983	3.60	3.50	3.53	3.45	3.41	3.31	3.55	3.61	3.58	3.57	3.43	3.33	3.4
1984	3.09	2.84	2.77	2.75	2.86	2.84	2.86	2.88	2.81	3.57	2.72	2.47	2.8
1985	2.38	2.27	2.50	2.59	2.55	2.50	2.42	2.46	2.56	2.52	2.01	1.67	2.3
1986	1.47	1.46	1.68	1.69	1.61	1.57	1.65	1.74	1.93	1.92	1.79	1.65	1.6
1987	1.65	1.78	1.91	1.97	2.05								
Corn,	no. 2 ye	ellow, Or	maha										
1971	1.15	1.14	1.15	1.24	1.25	1.23	1.23	1.25	1.27	1.23	1.24	1.21	1.2
1972	1.28	1.28	1.15	1.49	1.25	1.23	1.49	1.51	1.84	2.25	2.32	2.71	1.7
1973	2.37	2.34	2.40	2.49	2.71	2.95	2.76	2.49	2.51	2.68	3.19	3.55	2.7
1974	3.46	3.63	3.46	3.36	3.07	2.79	2.76	2.85	2.81	2.84	3.19	3.55	3.0
1975	2.95	2.75	2.55	2.56	2.57	2.60	2.62	2.59	2.74	2.86	2.83	2.69	2.6
1976	2.59	2.36	2.17	2.30	2.38	2.38	2.35	2.29	2.21	2.10	1.90	1.66	2.2
1977	1.67	1.79	2.02	2.04	2.02	2.03	2.14	2.25	2.34	2.33	2.13	1.98	2.0
1978	1.95	2.05	2.04	2.09	2.12	2.13	2.17	2.26	2.40	2.59	2.68	2.45	2.2
1979	2.37	2.37	2.32	2.36	2.26	2.33	2.23	2.32	2.43	2.50	2.81	2.98	2.4
1980	3.01	3.16	3.34	3.30	3.29	3.18	3.17	3.24	3.24	3.19	3.15	2.79	3.1
1981	2.51	2.44	2.39	2.37	2.47	2.45	2.48	2.61	2.65	2.65	2.54	2.23	2.4
1982	2.23	2.12	2.35	2.37	2.42	2.62	2.82	3.09	3.10	3.11	3.18	3.39	2.7
1983	3.32	2.12	2.35	2.37	3.11	2.62 3.03	3.25	3.33	3.35	3.37	3.22	3.11	3.2
1984	2.94	2.71	2.61	2.55	2.60	2.61	2.68	2.73	2.68	2.70	2.61	3.11	2.6
1985	2.35	2.26	2.28	2.36	2.33	2.31	2.31	2.34	2.43	2.42	2.01	1.61	2.7
1986	1.41	1.40	1.55	1.54	1.44	1.39	1.47	1.57	1.76	1.77	1.59	1.47	1.5
1987	1.51	1.57	1.68	1.75	1.79								

Table 9.--Cash prices at principal markets, 1971-87--continued

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average
						Dollar	s per b	ushel					
lorn,	no. 2 ye	llow, Ch	icago										
1971 1972 1973 1974 1975 1976 1977 1978	1.16 1.40 2.47 3.55 2.99 2.77 1.80 2.13 2.78	1.10 1.32 2.37 3.74 2.74 2.49 1.84 2.22 2.73	1.07 1.33 2.50 3.48 2.58 2.33 2.14 2.28 2.59	1.22 1.57 2.68 3.47 2.59 2.44 2.19 2.27 2.69	1.21 1.58 2.90 3.19 2.62 2.53 2.19 2.29 2.54	1.21 1.59 3.13 2.96 2.70 2.54 2.21 2.35 2.65	1.22 1.59 2.99 2.90 2.68 2.52 2.36 2.42 2.60	1.26 1.65 2.69 2.96 2.68 2.50 2.51 2.53 2.61	1.28 2.01 2.70 2.82 2.84 2.41 2.57 2.66 2.70	1.25 2.42 2.93 2.89 2.96 2.27 2.51 2.83 2.70	1.29 2.52 3.35 2.95 2.96 2.05 2.28 3.00 3.08	1.29 2.91 3.63 3.12 2.84 1.78 2.17 2.83 3.36	1.21 1.82 2.94 3.17 2.77 2.38 2.23 2.49 2.75
1980 1981 1982 1983 1984 1985 1986 1987	3.44 2.72 2.17 3.52 2.95 2.31 1.49	3.43 2.61 2.07 3.47 2.81 2.26 1.51 1.73	3.43 2.60 2.38 3.51 2.79 2.46 1.68 1.86	3.54 2.52 2.44 3.38 2.72 2.50 1.66 1.89	3.56 2.63 2.54 3.30 2.79 2.51 1.57	3.49 2.63 2.74 3.29 2.79 2.49 1.50	3.48 2.67 2.98 3.52 2.84 2.45 1.60	3.53 2.69 3.12 3.61 2.90 2.46 1.69	3.47 2.73 3.11 3.61 2.85 2.55 1.89	3.41 2.72 3.28 3.62 2.83 2.52 1.88	3.41 2.61 3.33 3.45 2.76 1.98 1.68	3.09 2.36 3.60 3.23 2.50 1.68 1.53	3.44 2.63 2.98 3.46 2.79 2.35
						Dol	lars per	cwt					
Grain	sorghum	, no. 2 y	rellow; (Gulf Port	s, expor	t prices							
1971 1972 1973 1974 1975 1976 1977 1978	2.19 2.64 4.78 5.84 5.36 4.80 3.49 3.95 5.11	2.18 2.58 4.96 6.77 5.24 4.45 3.68 4.26 5.27	2.29 2.76 4.84 6.63 4.94 4.24 4.08 4.38 5.28	2.43 3.32 4.96 6.35 4.91 4.37 4.08 4.34 5.36	2.41 3.69 5.25 5.39 4.92 4.52 4.00 4.40 5.10	2.42 3.56 5.50 4.95 4.99 4.52 4.08 4.44 5.39	2.43 3.46 5.15 5.04 5.01 4.43 4.34 4.46 5.20	2.44 3.38 4.68 5.06 4.89 4.25 4.59 4.46 5.19	2.34 3.56 4.35 5.02 4.89 4.16 4.62 4.56 5.29	2.26 3.96 4.25 4.80 4.97 3.82 4.40 4.96 5.42	2.36 4.52 5.26 4.69 5.13 3.64 4.11 5.40 6.03	2.47 5.14 5.80 5.55 4.60 3.43 3.98 5.05 6.49	2.35 3.55 4.96 5.51 4.99 4.22 4.13 4.55 5.43
1980 1981 1982 1983 1984 1985 1986 1987	6.43 5.00 4.36 6.15 4.75 3.70 2.95 3.13	6.48 4.91 4.44 5.99 4.60 3.97 3.15 3.35	6.79 5.10 5.00 6.01 4.84 4.34 3.26 3.56	6.71 5.08 5.06 5.94 5.04 4.52 3.16 3.49	6.65 5.27 5.20 5.87 5.19 4.45 3.03 3.64	6.46 5.14 5.49 5.70 5.10 4.30 3.04	6.40 5.11 5.64 5.93 5.32 4.28 3.34	6.38 5.21 5.98 5.88 5.36 4.50 3.28	6.34 5.30 6.05 5.98 5.23 4.80 3.51	5.76 5.01 5.78 5.84 4.78 3.90 3.47	5.60 4.66 5.68 5.05 4.49 3.37 3.30	5.29 4.54 6.18 4.86 4.04 2.71 3.04	6.27 5.03 5.41 5.77 4.90 4.07 3.21
Sorgh	num, no.	2 yellow	, Kansas	City									
1971 1972 1973 1974 1975 1976 1977 1978 1979		1.80 2.17 4.37 6.32 4.53 3.88 3.05 3.61 4.42	1.91 2.42 4.31 6.10 4.36 3.60 3.40 3.67 4.41	2.06 2.88 4.37 5.70 4.33 3.77 3.36 3.64 4.57	2.06 3.06 4.71 4.95 4.36 3.91 3.37 3.71 4.21	2.07 2.88 4.99 4.55 4.47 3.85 3.49 3.73 4.35	2.07 2.86 4.64 4.48 4.62 3.75 3.78 3.77 4.20	2.09 2.83 4.03 4.64 4.47 3.62 3.92 3.81 4.15	2.08 3.09 3.84 4.60 4.47 3.53 3.92 3.92 4.31	2.06 3.61 3.99 4.53 4.66 3.28 3.82 4.41 4.49	2.11 3.93 5.02 4.82 4.73 3.15 3.54 4.89 5.36	2.05 4.72 5.79 5.13 4.29 2.73 3.41 4.44 5.71	2.07 3.00 4.57 5.11 4.50 3.60 3.44 3.99
1980 1981 1982 1983 1984 1985 1986	4.16 4.06 5.55 4.46 3.56 2.47	2.60	5.91 4.14 4.25 5.25 4.28 3.75 2.70 2.90	5.82 4.27 4.37 5.16 4.32 3.97 2.62 2.95	5.79 4.44 4.37 5.09 4.48 3.95 2.50 3.05	5.52 4.26 4.54 5.03 4.33 3.80 2.57	5.46 4.28 5.08 5.40 4.58 3.82 2.80	5.49 4.45 5.30 5.36 4.76 4.00 2.85	5.38 4.48 5.37 5.39 4.74 4.25 3.10	5.23 4.50 5.37 5.40 4.74 4.00 3.20	5.29 4.38 5.32 4.95 4.50 3.20 2.80	4.58 4.02 5.69 4.74 4.06 2.71 2.55	4.2 4.8 5.2 4.4 3.7

Table 9.--Cash prices at principal markets, 1971-87--continued

Sorghum, no. 1971 N.Q. 1972 2.28 1973 4.50 1974 5.74 1975 5.03 1976 4.33 1977 3.13 1977 3.13 1978 3.85 1979 4.92 1980 5.95 1981 4.65 1982 4.39 1984 5.22 1985 4.19 1986 3.35 1987 3.19 Year June Barley, no. 1971 1.30 1972 1.32 1973 1.74 1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.99 1981 3.34 1982 2.93 1981 3.34 1982 2.93 1983 2.66 1984 3.04 1985 2.46 1986 1.84 1987 2.07	1.99 2.26 4.44 6.26 4.56 3.97 3.38 4.06 4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July 3 or bett	1.99 2.48 4.40 6.12 4.32 3.73 3.58 4.13 4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	2.08 2.98 4.43 5.82 4.32 3.79 3.63 4.08 4.75 6.42 4.63 4.65 5.43 4.90 4.49 3.06 3.39	2.12 3.03 4.75 5.00 4.29 3.86 3.62 4.049 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40	2.08 2.98 5.22 4.52 4.52 4.56 3.67 4.05 4.56 5.93 4.78 4.36 2.89	1.17	2.11 2.96 4.42 4.70 4.48 3.77 4.28 4.06 4.48 5.88 4.91 5.68 5.14 4.43 3.32	2.13 3.20 4.22 4.64 4.49 3.67 4.21 4.78 5.90 5.26 5.76 5.67 5.22 4.77 3.56	2.14 3.69 4.08 4.63 3.50 4.27 4.83 4.99 5.81 5.75 5.28 5.81 5.75 4.84 3.60	2.18 3.77 4.91 4.67 5.01 3.46 4.12 5.39 5.71 5.80 5.24 5.86 5.72 5.24 3.93 3.58 Apr.	2.21 5.21 5.80 5.23 4.40 3.10 3.93 5.89 5.89 5.85 5.40 3.36 3.30 May.	2.10 3.15 4.67 5.14 4.53 3.74 3.82 4.88 5.97 4.87 5.19 5.53 5.04 4.32 3.24
971 N.Q. 972 2.28 973 4.50 974 5.74 975 5.03 976 4.33 977 3.13 978 3.85 979 4.92 980 5.95 981 4.65 982 4.39 983 5.72 985 4.19 986 3.35 1987 3.19 Year June 3arley, no. 1971 1.30 1972 1.22 1973 1.74 1974 3.11 1975 3.97 1978 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.48 1985 2.48 1986 1.84	1.99 2.26 4.44 6.26 4.56 3.97 3.38 4.06 4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July 3 or bett	1.99 2.48 4.40 6.12 4.32 3.73 3.58 4.13 4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	2.08 2.98 4.43 5.82 4.32 3.79 3.63 4.08 4.75 6.42 4.63 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	2.12 3.03 4.75 5.00 4.29 3.86 3.62 4.04 4.49 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	2.98 5.22 4.38 3.86 3.67 4.05 4.56 5.93 4.78 5.19 4.86 4.36 2.89 Nov.	3.01 4.89 4.41 4.47 3.86 4.01 4.46 5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec.	2.96 4.42 4.70 4.48 3.77 4.28 4.06 4.48 5.88 4.91 5.68 5.14 4.48 3.32 Jan.	3.20 4.22 4.64 4.49 3.67 4.21 4.78 5.90 5.26 5.76 5.67 5.22 4.77 3.56	3.69 4.03 4.63 3.50 4.27 4.83 4.99 5.83 5.28 5.81 5.77 5.25 4.84 3.60	3.77 4.91 4.67 5.01 3.46 4.12 5.39 5.71 5.80 5.24 5.72 5.24 3.93 3.58 Apr.	5.21 5.80 5.23 4.40 3.10 3.93 4.97 5.89 5.02 4.80 5.85 5.46 N.Q. 3.36 3.30	3.15 4.67 5.14 4.53 3.74 3.82 4.31 4.88 5.97 4.87 5.19 5.53 5.04 4.32 3.24
972	2.26 4.44 6.26 4.56 3.97 3.38 4.06 4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.27 July 3 or bett 1.25 1.22 1.82 3.38 3.83 3.83 3.83	2.48 4.40 6.12 4.32 3.73 3.58 4.13 4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	2.98 4.43 5.82 4.32 3.79 3.63 4.08 4.75 6.42 4.63 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	3.03 4.75 5.00 4.29 3.86 3.62 4.04 4.49 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	2.98 5.22 4.38 3.86 3.67 4.05 4.56 5.93 4.78 5.19 4.86 4.36 2.89 Nov.	3.01 4.89 4.41 4.47 3.86 4.01 4.46 5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec.	2.96 4.42 4.70 4.48 3.77 4.28 4.06 4.48 5.88 4.91 5.68 5.14 4.48 3.32 Jan.	3.20 4.22 4.64 4.49 3.67 4.21 4.78 5.90 5.26 5.76 5.67 5.22 4.77 3.56	3.69 4.03 4.63 3.50 4.27 4.83 4.99 5.83 5.28 5.81 5.77 5.25 4.84 3.60	3.77 4.91 4.67 5.01 3.46 4.12 5.39 5.71 5.80 5.24 5.72 5.24 3.93 3.58 Apr.	5.21 5.80 5.23 4.40 3.10 3.93 4.97 5.89 5.02 4.80 5.85 5.46 N.Q. 3.36 3.30	3.15 4.67 5.14 4.53 3.74 3.82 4.31 4.88 5.97 4.87 5.19 5.53 5.04 4.32 3.24
972 2.28 973 4.50 974 5.74 975 5.03 976 4.33 977 3.13 978 3.85 1977 4.92 1980 5.95 1981 4.65 1982 4.39 1983 5.77 1984 5.22 1985 4.19 1986 3.35 1987 3.19 Year June 3arley, no. 1971 1.30 1972 1.22 1973 1.74 1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1984 3.04 1985 2.46 1984 3.04 1985 2.46 1986 1.84	4.44 6.26 4.56 3.97 3.38 4.06 4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July	4.40 6.12 4.32 3.73 3.58 4.13 4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	4.43 5.82 4.32 3.79 3.63 4.08 4.75 6.42 4.63 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	4.75 5.00 4.29 3.86 3.62 4.04 4.49 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	5.22 4.52 4.38 3.86 3.67 4.05 4.56 5.93 4.78 5.19 5.14 4.86 4.36 2.89	3.01 4.89 4.41 4.47 3.86 4.01 4.46 5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec.	2.96 4.42 4.70 4.48 3.77 4.28 4.06 4.48 5.88 4.91 5.68 5.14 4.48 3.32 Jan.	3.20 4.22 4.64 4.49 3.67 4.21 4.78 5.90 5.26 5.76 5.67 5.22 4.77 3.56	3.69 4.03 4.63 3.50 4.27 4.83 4.99 5.83 5.28 5.81 5.77 5.25 4.84 3.60	3.77 4.91 4.67 5.01 3.46 4.12 5.39 5.71 5.80 5.24 5.72 5.24 3.93 3.58 Apr.	5.21 5.80 5.23 4.40 3.10 3.93 4.97 5.89 5.02 4.80 5.85 5.46 N.Q. 3.36 3.30	3.15 4.67 5.14 4.53 3.74 3.82 4.31 4.88 5.97 4.87 5.19 5.53 5.04 4.32 3.24 Averag
974 5.74 975 5.03 976 4.33 977 3.13 978 3.85 979 4.92 980 5.95 981 4.65 982 4.39 983 5.77 984 5.22 985 4.19 986 3.35 1987 3.19 Year June Bairley, no. 1971 1.30 1972 1.22 1973 3.74 1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1985 2.46 1986 1.84	6.26 4.56 3.97 3.38 4.06 4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July	6.12 4.37 3.73 3.58 4.13 4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	5.82 4.32 3.79 3.63 4.08 4.75 6.42 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	5.00 4.29 3.86 3.62 4.04 4.49 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	4.52 4.38 3.86 3.67 4.05 4.56 5.93 4.78 5.19 5.14 4.86 2.89	4.41 4.47 3.86 4.04 4.01 4.46 5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec.	4.70 4.48 3.77 4.28 4.06 4.48 5.88 4.91 5.94 5.68 5.14 4.48 3.32 Jan.	4.64 4.49 3.67 4.25 4.21 4.78 5.90 5.26 5.76 5.67 5.27 3.56	4.63 4.63 3.50 4.27 4.83 4.99 5.83 5.28 5.81 5.77 5.25 4.84 3.60	4.67 5.01 3.46 4.12 5.39 5.71 5.80 5.24 5.86 5.72 5.24 3.93 3.58	5.23 4.40 3.10 3.93 4.97 5.89 5.02 4.80 5.85 5.46 N.Q. 3.36 5.30	5.14 4.53 3.74 3.82 4.31 4.88 5.97 4.87 5.19 5.53 5.04 4.32 3.24 Averag
975 5.03 976 4.33 977 3.13 978 3.85 979 4.92 980 5.95 981 4.65 981 4.65 982 4.39 983 5.77 984 5.22 985 4.19 986 3.35 987 3.19 Year June 3arley, no. 1971 1.30 1972 1.22 1.973 1.74 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	4.56 3.97 3.38 4.06 4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July	4.32 3.73 3.58 4.13 4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	4.32 3.79 3.63 4.08 4.75 6.42 4.63 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	4.29 3.86 3.62 4.04 4.49 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	4.38 3.86 3.67 4.05 4.56 5.93 4.78 5.19 4.86 4.36 2.89 Nov.	4.47 3.86 4.04 4.01 4.46 5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec.	4.48 3.77 4.28 4.06 4.48 5.88 4.91 5.68 5.14 4.48 3.32 Jan.	4.49 3.67 4.25 4.21 4.78 5.90 5.76 5.76 5.67 5.22 4.77 3.56	4.63 3.50 4.27 4.83 4.99 5.83 5.81 5.77 5.25 4.84 3.60 Mar.	5.01 3.46 4.12 5.39 5.71 5.80 5.24 5.72 5.24 3.93 3.58 Apr.	4.40 3.10 3.93 4.97 5.89 5.02 4.80 5.46 N.Q. 3.36 5.30	4.53 3.74 3.82 4.31 4.88 5.97 4.87 5.19 5.53 5.04 4.32 3.24 Averag
976 4.33 977 3.13 978 3.85 979 4.92 980 5.95 981 4.65 982 4.39 983 5.77 984 5.22 985 4.19 986 3.35 987 3.19 Year June Barley, no. 971 1.30 1.972 1.22 1.973 1.74 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	3.97 3.38 4.06 4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July	3.73 3.58 4.13 4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	3.79 3.63 4.08 4.75 6.42 4.63 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	3.86 3.62 4.04 4.49 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	3.86 3.67 4.05 4.56 5.93 4.78 5.19 5.14 4.86 4.36 2.89 Nov.	3.86 4.04 4.01 4.46 5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec.	3.77 4.28 4.06 4.48 5.88 4.91 5.94 5.64 4.48 3.32 Jan.	3.67 4.21 4.78 5.90 5.26 5.76 5.67 5.67 5.22 4.77 3.56	3.50 4.27 4.83 4.99 5.83 5.28 5.81 5.75 4.84 3.60	3.46 4.12 5.39 5.71 5.80 5.24 5.86 5.72 5.24 3.93 3.58	3.10 3.93 4.97 5.89 5.02 4.80 5.85 5.46 3.36 3.30 May.	3.74 3.82 4.31 4.88 5.97 4.87 5.19 5.04 4.32 3.24
977 3.13 978 3.85 979 4.92 980 5.95 981 4.65 982 4.39 983 5.77 984 5.22 985 4.19 986 3.35 987 3.19 Year June Barley, no. 1971 1.30 1972 1.22 1973 1.74 1974 3.11 1975 3.97 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1985 2.46 1986 1.84	3.38 4.06 4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July 3 or bett	3.58 4.13 4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	3.63 4.08 4.75 6.42 4.63 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	3.62 4.04 4.49 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	3.67 4.05 4.56 5.93 4.78 5.19 5.14 4.86 4.36 2.89 Nov.	4.04 4.01 4.46 5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec.	4.28 4.06 4.48 5.88 4.91 5.94 5.68 5.14 4.48 3.32 Jan.	4.25 4.21 4.78 5.90 5.26 5.76 5.67 5.67 5.24 4.77 3.56	4.27 4.83 4.99 5.83 5.28 5.81 5.77 5.25 4.84 3.60	4.12 5.39 5.71 5.80 5.24 5.86 5.72 5.24 3.93 3.58 Apr.	3.93 4.97 5.89 5.02 4.80 5.85 5.46 N.Q. 3.36 3.30	3.82 4.31 4.88 5.97 4.87 5.19 5.53 5.04 4.32 3.24
978 3.85 979 4.92 980 5.95 981 4.65 981 4.65 982 4.39 983 5.77 984 5.22 985 4.19 986 3.35 987 3.19 Year June 3arley, no. 1971 1.30 1972 1.22 1973 1.74 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1982 2.93 1983 2.46 1984 3.04 1985 2.46 1985 2.46 1986 1.84	4.06 4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July	4.13 4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	4.08 4.75 6.42 4.63 4.65 5.43 4.90 4.49 3.06 5.39 Sept.	4.04 4.49 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	4.05 4.56 5.93 4.78 5.19 5.14 4.86 4.36 2.89 Nov.	4.01 4.46 5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec.	4.06 4.48 5.88 4.91 5.68 5.14 4.48 3.32 Jan.	4.21 4.78 5.90 5.26 5.76 5.67 5.22 4.77 3.56 Feb.	4.83 4.99 5.83 5.281 5.77 5.25 4.84 3.60 Mar.	5.39 5.71 5.80 5.24 5.26 5.72 5.24 3.93 3.58 Apr.	4.97 5.89 5.02 4.80 5.85 5.46 N.Q. 3.36 5.30	4.31 4.88 5.97 4.87 5.53 5.04 4.32 3.24 Averag
979 4.92 980 5.95 981 4.65 982 4.39 983 5.77 984 5.22 985 4.19 986 3.35 987 3.19 Year June Barley, no. 971 1.30 1.972 1.22 1.973 1.74 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1981 3.94 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	4.83 6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July 3 or bett 1.25 1.22 1.82 3.38 3.38 3.38 3.39	4.76 6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	4.75 6.42 4.63 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	4.49 6.26 4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	4.56 5.93 4.78 5.19 5.14 4.86 4.36 2.89 Nov. Dol	4.46 5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec.	4.48 5.88 4.91 5.94 5.68 5.14 4.48 3.32 Jan. bushel	4.78 5.90 5.26 5.76 5.67 5.22 4.77 3.56 Feb.	4.99 5.83 5.28 5.81 5.77 5.25 4.84 3.60	5.71 5.80 5.24 5.86 5.72 5.24 3.93 3.58 Apr.	5.89 5.02 4.80 5.85 5.46 N.Q. 3.36 3.30 May.	4.88 5.97 4.87 5.19 5.53 5.04 4.32 3.24 Averag
980 5.95 981 4.65 982 4.39 983 5.77 984 5.22 985 4.19 986 3.35 987 3.19 Year June Garley, no. 971 1.30 972 1.22 973 1.74 974 3.11 975 3.97 1976 3.55 1977 2.38 1978 2.39 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	6.27 4.70 4.08 5.56 4.95 4.38 3.24 3.27 July	6.62 4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	6.42 4.63 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	6.26 4.77 4.82 5.35 4.47 2.94 3.40 Oct.	5.93 4.78 5.19 5.14 4.86 4.36 2.89 Nov. Dol	5.79 4.75 5.52 5.33 4.98 4.33 3.06 Dec. lars per Minneapo	5.88 4.91 5.94 5.68 5.14 4.48 3.32 Jan. bushel	5.90 5.26 5.76 5.67 5.67 5.22 4.77 3.56	5.83 5.28 5.81 5.77 5.25 4.84 3.60	5.80 5.24 5.86 5.72 5.24 3.93 3.58 Apr.	5.02 4.80 5.85 5.46 N.Q. 3.36 3.30	5.97 4.87 5.19 5.53 5.04 4.32 3.24 Averag
981 4.65 982 4.39 983 5.77 984 5.22 985 4.19 986 3.35 987 3.19 Year June Garley, no. 971 1.30 972 1.22 973 1.74 974 3.11 975 3.97 978 2.39 1979 2.80 1980 2.99 1981 3.34 1985 2.46 1986 1.84	4.70 4.08 5.56 4.95 4.38 3.24 3.27 July 3 or bett 2 1.22 1.82 3.38 3.38 3.38 3.39	4.71 4.38 5.49 4.86 4.30 2.97 3.27 Aug.	4.63 4.65 5.43 4.90 4.49 3.06 3.39 Sept.	4.77 4.82 5.35 4.84 4.47 2.94 3.40 Oct.	4.78 5.19 5.14 4.86 4.36 2.89 Nov. Dol	4.75 5.52 5.33 4.98 4.33 3.06 Dec.	4.91 5.68 5.14 4.48 3.32 Jan. bushel	5.26 5.76 5.67 5.22 4.77 3.56	5.28 5.81 5.77 5.25 4.84 3.60 Mar.	5.24 5.86 5.72 5.24 3.93 3.58 Apr.	4.80 5.85 5.46 N.Q. 3.36 5.30 May.	4.87 5.19 5.53 5.04 4.32 3.24 Averag
982 4,39 983 5,77 984 5,22 985 4,19 986 3,35 987 3,19 Year June 4 1,30 971 1,30 972 1,22 973 1,74 974 3,11 975 3,97 976 2,38 978 2,39 979 2,80 980 2,99 981 3,34 979 2,80 984 3,04 984 3,04 984 3,04 985 2,48	4.08 5.56 4.95 4.38 3.24 3.27 July 3 or bett	4.38 5.49 4.86 4.30 2.97 3.27 Aug.	4.65 5.43 4.90 4.49 3.06 3.39 Sept.	4.82 5.35 4.84 4.47 2.94 3.40 Oct.	5.19 5.14 4.86 4.36 2.89 Nov. Dol plump, 1.17 1.34 2.62 4.78	5.52 5.33 4.98 4.33 3.06 Dec. lars per Minneapo	5.94 5.68 5.14 4.48 3.32 Jan. bushel	5.76 5.67 5.22 4.77 3.56 Feb.	5.81 5.77 5.25 4.84 3.60 Mar.	5.86 5.72 5.24 3.93 3.58 Apr.	5.85 5.46 N.Q. 3.36 3.30 May.	5-19 5-53 5-04 4-32 3-24 Averag
983 5.77 984 5.22 985 4.19 986 3.35 987 3.19 Year June Vear June 1.30 972 1.22 973 1.74 975 3.97 976 3.55 977 2.38 978 2.39 979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	5.56 4.95 4.38 3.24 3.27 July 3 or bett 1.25 1.22 1.82 3.38 3.38 3.39 3.39	5.49 4.86 4.30 2.97 3.27 Aug.	5.43 4.90 4.49 3.06 3.39 Sept.	5.35 4.84 4.47 2.94 3.40 Oct.	5.14 4.86 4.36 2.89 Nov. Dol 1.17 1.34 2.62 4.78	5.33 4.98 4.33 3.06 Dec. lars per Minneapo	5.68 5.14 4.48 3.32 Jan. bushel	5.67 5.22 4.77 3.56 Feb.	5.77 5.25 4.84 3.60 Mar.	5.72 5.24 3.93 3.58 Apr.	5.46 N.Q. 3.36 3.30 May.	5.53 5.04 4.32 3.24 Averag
984 5.22 985 4.19 986 3.35 987 3.19 Year June Per June	4.95 4.38 3.24 3.27 July 3 or bett 1.25 1.22 1.82 3.38 3.38 3.83 3.83	4.86 4.30 2.97 3.27 Aug.	4.90 4.49 3.06 5.39 Sept.	4.84 4.47 2.94 3.40 Oct.	Nov. Dol 1.17 1.34 2.62 4.78	4.98 4.33 3.06 Dec. Iars per Minneapo	Jan. bushel blis, 1.20	5.22 4.77 3.56 Feb.	5.25 4.84 3.60 Mar.	5.24 3.93 3.58 Apr.	N.Q. 3.36 5.30 May.	5.04 4.32 3.24 Averag
985 4.19 986 3.35 987 3.19 Year June Barley, no. 971 1.30 972 1.22 973 1.74 974 3.11 975 3.97 1.7976 3.55 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	3 or bett 1.25 2.1.22 3.38 3.38 3.38 3.35 3.59	4.30 2.97 3.27 Aug. er maltii 1.10 1.21 2.45 3.77 3.65	4.49 3.06 3.39 Sept.	4.47 2.94 3.40 Oct. 0ct.	Nov. Dol 1.17 1.34 2.62 4.78	4.33 3.06 Dec. lars per Minneapo 1.17 1.45 2.64	Jan. bushel blis, 1.20 1.59	4.77 3.56 Feb.	4.84 3.60 Mar.	3.93 3.58 Apr.	3.36 3.30 May.	4.32 3.24 Averag
986 3.35 987 3.19 Year June Parley, no. 971 1.30 972 1.22 973 1.74 974 3.11 975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	3.24 3.27 July 3 or bett 1.25 1.22 1.82 3.38 3.38 3.35 3.59	2.97 3.27 Aug. er maltii 1.10 1.21 2.45 3.77 3.65	3.06 3.39 Sept. ng, 65% o	2.94 3.40 Oct. or better 1.17 1.34 2.64 4.42	Nov. Dol r plump, 1.17 1.34 2.62 4.78	Dec. lars per Minneapo 1.17 1.45 2.64	Jan. bushel blis, 1.20 1.59	3.56 Feb.	3.60 Mar.	3.58 Apr.	Nay.	3.24 Averag
Year June Sairley, no. 1971 1.30 1972 1.22 1973 1.74 1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1981 3.34 1983 2.60 1984 5.04 1985 2.46 1986 1.84	3.27 July 3 or bett 1.25 1.22 1.82 3.38 3.38 3.38 3.35	3.27 Aug. er maltir 1.10 1.21 2.45 3.77 3.65	3.39 Sept. ng, 65% o	3.40 Oct. or better 1.17 1.34 2.64 4.42	Nov. Dol plump, 1.17 1.34 2.62 4.78	Dec. lars per Minneapo	Jan. bushel	Feb.	Mar.	Apr.	May.	Averag
Year June Barley, no. 971 1.30 1.972 1.22 1.973 1.74 1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	July 3 or bett 1.25 1.22 1.82 3.38 3.83 3.59	Aug. er maltii 1.10 1.21 2.45 3.77 3.65	Sept. ng, 65% o 1.11 1.26 2.64 4.00	Oct. or better 1.17 1.34 2.64 4.42	Dol r plump, 1.17 1.34 2.62 4.78	lars per Minneapo 1.17 1.45 2.64	bushel blis, 1.20	1.19	1.19	1.19	1.20	1.19
3arley, no. 971 1.30 972 1.22 973 1.74 974 3.11 975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	3 or bett	1.10 1.21 2.45 3.77 3.65	1.11 1.26 2.64 4.00	1.17 1.34 2.64 4.42	Dol r plump, 1.17 1.34 2.62 4.78	lars per Minneapo 1.17 1.45 2.64	bushel blis, 1.20	1.19	1.19	1.19	1.20	1.19
1971 1.30 1972 1.22 1973 1.74 1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1985 2.46	1.25 1.22 1.82 3.38 3.83 3.59	1.10 1.21 2.45 3.77 3.65	1.11 1.26 2.64 4.00	1.17 1.34 2.64 4.42	1.17 1.34 2.62 4.78	1.17 1.45 2.64	1.20 1.59	1.58	1.61	1.64	1.66	1.43
1971 1.30 1972 1.22 1973 1.74 1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1985 2.46	1.25 1.22 1.82 3.38 3.83 3.59	1.10 1.21 2.45 3.77 3.65	1.11 1.26 2.64 4.00	1.17 1.34 2.64 4.42	1.17 1.34 2.62 4.78	1.17 1.45 2.64	1.20 1.59	1.58	1.61	1.64	1.66	1.43
972	1.22 1.82 3.38 3.83 3.59	1.21 2.45 3.77 3.65	1.26 2.64 4.00	1.34 2.64 4.42	1.34 2.62 4.78	1.45	1.59	1.58	1.61	1.64	1.66	1.43
1972 1.22 1973 1.74 1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1978 2.39 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	1.22 1.82 3.38 3.83 3.59	1.21 2.45 3.77 3.65	1.26 2.64 4.00	1.34 2.64 4.42	1.34 2.62 4.78	1.45	1.59	1.58	1.61	1.64	1.66	1.43
1973 1.74 1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	1.82 3.38 3.83 3.59	2.45 3.77 3.65	2.64 4.00	2.64	2.62 4.78	2.64						
1974 3.11 1975 3.97 1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46	3.38 3.83 3.59	3.77 3.65	4.00	4.42	4.78				3.57			
1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	3.83	3.65				4.65	4.62	4.45	4.15	4.34	4.28	4.16
1976 3.55 1977 2.38 1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	3.59				3.56	3.35	3.24	3.21	3.22	3.17	3.22	3.52
1978 2.39 1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.66 1984 3.04 1985 2.46 1986 1.84		3.37	3.24	3.21	3.00	2.95	3.00	2.91	2.98	2.91	2.83	3.13
1979 2.80 1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	2.02	1.92	2.15	2.25	2.36	2:32	2.26	2.33	2.32	2.44	2.51	2.27
1980 2.99 1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	2.13	2.19	2.27	2.26	2.47	2.40	2.30	2.33	2.46	2.59	2.73	2.38
1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	2.82	2.67	3.10	3.18	3.06	2.93	2.87	2.81	2.69	2.73	2.82	2.87
1981 3.34 1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84	3.36	3.27	3.63	3.80	3.88	3.77	3.75	3.83	3.71	3.84	3.80	3.64
1982 2.93 1983 2.60 1984 3.04 1985 2.46 1986 1.84		3.15	3.05	3.02	3.07	2.92	3.00	3.14	2.99	2.98	3.05	3.0
1983 2.60 1984 3.04 1985 2.46 1986 1.84		2.48	2.37	2.42	2.45	2.37	2.38	2.42	2.45	2.68	2.76	2.5
1984 3.04 1985 2.46 1986 1.84		2.76	2.90	2.96	2.95	2.77	2.85	2.76	2.91	3.04	3.06	2.8
1985 2.46 1986 1.84		2.48	2.44	2.43	2.43	2.36	2.46	2.47	2.51	2.52	2.55	2.5
		2.03	2.15	2.10	2.27	2.29	2.28	2.20	2.34	2.40	2.07	2.2
1987 2.07	1 1.75	1.61	1.76	1.93	2.02	1.88	1.81	1.92	2.01	2.05	2.12	1.8
	7 1.93	1.73	1.98	2.08	2.05	2.01	2.02					
Barley, no.	2 feed, I	finneapol	is 1/2/	/								
1971 1.08		.95	.99	1.04	1.04	1.04	1.07	1.07	1.05	1.06	1.08	1.0
1972 1.05		.98	1.11	1.16	1.14	1.27	1.34	1.20	1.19	1.25	1.36	1.1
1973 1.5		2.12	2.12	2.02	1.80	2.12	2.34	2.51	2.32	1.74	2.10	2.0
1974 2.36		2.69	2.48	3.07	3.17	2.89	2.82	2.59	2.26	2.24	2.05	2.5
1975 1.67		2.77	3.00	2.83	2.42	2.23	2.11	2.26	2.38	2.39	2.50	2.3
1976 2.67	2 2.45	2.48	2.68	2.46	2.21	2.05	2.20	2.35	2.29	2.28	2.13	2.3
1977 1.76		1.50	1.58	1.66	1.65	1.65	1.65	1.65	1.66	1.91	1.90	1.6
1978 1.84 1979 2.16		2.15	1.77	2.34	2.11	1.79	2.09	1.69	1.86	2.12	1.96	2.1
1980 2.15		2.39	2.43	2.77								
1981 2.09	9 2.26	2.35	2.43	2.26	3.03	2.75	2.81	2.90	2.63	2.51	2.39	2.6
1982 2.13		1.72	1.69	1.54	1.58	1.59	1.63	2.27	2.16	2.16	2.24	2.2
1983 1.90		2.42	2.61	2.60	2.53	2.39	2.55	2.56	2.65	2.74	2.77	1.7
1984 2.59	9 2.18	2.13	2.05	2.10	2.06	1.88	1.98	1.99	1.97	2.05	2.05	2.4
1985 1.90		1.46	1.40	1.41	1.49	1.60	1.57	1.77	1.2/	2.05	1.31	1.5
1986 1.2		1.13	1.27	1.50	1.63	1.23	1.27		1.64	1.76	1.86	1.4
1987 1.7	0 1.66		1.76	1.78	1.82	1.74	1.72		1.04	1.70	1.00	1.4

Table 9.--Cash prices at principal markets, 1971-87--continued

Year	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Averag
						Dol	lars per	bushel					
arley,	no. 2	Western,	Portland	d									
971	1.30	1.12	.99	1.04	1.06	1.17	1.20	1.20	1.23	1.24	1.22	1.22	1.17
972	1.16	1.22	1.34	1.41	1.52	1.58	1.66	1.91	1.83	1.79	1.73	1.84	1.58
973	2.01	2.31	2.58	2.61	2.63	1.58 2.70	2.63	2.85	2.93	2.93	2.36	2.39	2.58
974	2.51	2.31 2.79 2.04	3.14	3.23	3.41	3.68	3.56 2.38 2.28	3.18	2.82	2.47	1.73 2.36 2.75	2.68	3.02
975	2.47	2.04	2.77	3.01	2.82	2.46	2.38	2.45	2.56	2.56	2.44	2.50	2.54
976	2.65	2.70	2.55	2.61	2.49	2.28	2.28	2.50	2.63	2.34	2.36	2.41	2.48
1977	2.19	2.10	1.96	2.00	1.97	2.04	2.13	2.19	2.20	2.24	2.39	2.41	2.15
978	2.41	2.24	2.22	2.02	1.94	1.97	2.05	2.08	1.98	2.04	2.09	2.14	2.10
979	2.47	2.89	2.76	2.75	2.69	2.57	2.67	2.68	2.79	2.67	2.63	2.71	2.69
980	2.78	3.03	2.88	2.93	3.34	3.56	3.63	3.68	3.71	3.58	3.48	3.50	3.34
1981	3.21	2.83	2.76	2.73	2.67	2.73	2.73	2.97	2.94	2.91 2.49 2.91	2.99	3.01 2.73 3.17	2.87
1982	2.82	2.54	2.56	2.46 2.91 2.53	2.22	2.49	2.40	2.45	2.44	2.49	2.61	2.73	2.87
1983	2.60	2.48	2.70	2.91	2.98	3.02	3.00	3.13	2.90	2.91	5.13	3.17	2.9
1984	3.05	2.59	2.57	2.53	2.58	2.62	2.65	2.58	2.56	2.49	2.46	2.44	2.59
1985	2.37	2.26	2.13	2.06	2.17	2.31	2.47	2.37	2.16	2.15	2.17	2.16	2.2
1986 1987	1.98	1.79	2.04	2.04	2.11	2.01	2.16	2.00	2.12	2.09	2.11	2.17	1.9
		eavy Whit											
1971	.85	.75	.71	.72	.76	.81	.83	.81	.82	.80	.77	.81	.79
1972	.82	.82	.86	.88	.89	.88	1.09	1.00	1.01	.92	.98	1.02	.9
1973	1.01	1.04	1.23	1.27	1.31	1.32	1.49	1.63	1.75	1.67	1.48	1.46	1.3
1974	1.50	1.59	1.74	1.72	1.85	1.88	1.88	1.75	1.72	1.60	1.67	1.64	1.7
1975	1.61	1.52	1.47	1.41	1.35	1.48	1.49	1.53	1.58	1.56	1.52	1.54	1.5
1976	1.73	1.58	1.51	1.54	1.35	1.65	1.77	1.83	1.91	1.56	1.80	1.81	1.7
1977	1.61	1.33	1.19	1.15	1.17	1.40	1.53	1.53	1.50	1.43	1.47	1.51	1.4
1978	1.49	1.29	1.27	1.24	1.29	1.39	1.39	1.42	1.44	1.39	1.38	1.45	1.3
1979	1.59	1.60	1.47	1.44	1.45	1.56	1.64	1.64	1.64	1.65	1.70	1.80	1.6
1980	1.89	1.79	1.78	1.85	2.00	2.22	2.39	2.51	2.49	2.39	2.36	2.39	2.1
1981	2.40	2.03	1.98	1.97	2.14	2.31	2.25	2.32	2.37	2.35	2.31	2.33	2.2
1982	2.17	1.61	1.39	1.34	1.37	1.49	1.58	1.58	1.54	1.52	1.52	1.53	1.5
1983	1.56	1.54	1.77	1.98	2.12	2.21	2.24	2.25	2.07	2.12	2.16	2.08	2.0
1984	2.06	2.06	2.00	1.95	1.92	1.96	1.94	1.96	1.96	1.88	1.75	1.60	1.9
1985	1.54	1.33	1.04	.96	.91	1.01	1.09	1.08	1.10	1.08	.95	.92	1.0
1986 1987	1.56	1.24	1.55	1.62	1.62	1.23	1.43	1.52	1.55	1.34	1.44	1.69	1.2
		leavy Whi			1002		1.03	1100					
1971	.70	.63	.61	.64	.64	.66	.68	.69	.69	.66	.67	.70	.6
1972	.70	.69	70	.71	.76	.81	.00	.09	.84	.84	.86	.91	. 8
1973	.93	.93	.70	1.32	.76	.81	.91	.88	1.66	1.52	.86	1.35	1.3
1974	1.43	1.63	1.68	1.71	1.87	1.80	1.74	1.64	1.64	1.49	1.72	1.78	1.6
1975	1.59	1.59	1.70	1.68	1.64	1.69	1.65	1.67	1.66	1.64	1.67	1.72	1.6
1976	1.93	1.84	1.67	1.67	1.66	1.62	1.67	1.78	1.80	1.76	1.81	1.68	1.7
1977	1.38	1.15	1.02	1.11	1.17	1.34	1.32	1.32	1.32	1.33	1.40	1.43	1.2
1978	1.36	1.24	1.28	1.36	1.39	1.47	1.40	1.47	1.54	1.60	1.48	1.55	1.4
1979	1.68	1.60	1.47	1.55	1.65	1.67	1.59	1.52	1.50	1.48	1.52	1.62	1.5
1980	1.67	1.80	1.70	1.86	1.96	2.15	2.16	2.20	2.25	2.23	2.21	2.23	2.0
1981	2.18	2.02	1.99	2.02	2.09	2.28	2.10	2.23	2.26	2.16	2.21	2.16	2.
1982	2.12	1.87	1.53	1.51	1.51	1.67	1.67	1.67	1.63	1.63	1.73	1.71	1.0
1983	1.67	1.60	1.79	1.94	2.00	1.97	1.94	1.98	1.82	1.88	1.89	1.96	1.1
1984	1.92	1.84	1.77	1.79	1.84	1.92	1.87	1.81	1.82	1.79	1.73	1.65	1.1
1985	1.59	1.44	1.23	1.24	1.19	1.32	1.39	1.37	1.30	1.27	1.16	1.22	1.
1986	1.18	1.05	1.12	1.29	1.59	1.72	1.66	1.64	1.56	1.46	1.59	1.83	1.4
1987	1.64	1.61	1.77	1.85	1.97	2.05	2.02	2.10					

N.Q.=No quotes. 1/ Prior to June 1977 reported as barley, no. 3 or better. 2/ Reporting point changed from Minneapolis #2 feed to Duluth #2 feed beginning March 1987.

Source: Grain and Feed Market News, AMS, USDA.

Table 10.--Feed-price ratios for livestock, poultry, and milk, by months, 1971-87

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average
IOG/CORN,	U.S.	basis <u>l</u> /	,										
971 972 1973 1974 1975 976 1977	16.1 23.0 20.4 10.2 21.2 15.3 25.2 24.2 14.8	19.5 23.0 18.8 10.8 22.3 14.1 23.9 25.8 14.0	19.3 22.3 18.6 11.1 21.1 15.4 20.1 23.4 15.2	18.2 20.8 16.0 11.7 20.1 16.3 21.3 23.0 15.5	20.9 22.3 15.5 12.4 19.5 16.3 22.0 24.0 14.8	23.5 25.4 14.2 13.5 19.4 16.8 23.3 24.1	21.2 27.9 13.1 14.5 18.2 15.8 21.6 21.8 13.9	19.9 24.7 12.7 14.7 19.1 15.6 20.1 19.4 11.9	21.7 21.9 10.7 17.0 18.2 18.1 20.9 18.4 11.8	22.7 18.7 9.4 17.7 18.0 19.8 20.9 15.9	24.1 20.3 11.8 19.8 16.9 23.8 21.0 14.4	24.3 21.0 10.7 19.0 16.1 26.3 23.6 14.3	21.0 22.6 14.3 14.4 19.2 17.8 22.0 20.7
980 981 982 983 984 985 986 1987 <u>2</u> /	15.3 19.1 28.5 13.3 16.0 17.3 40.2 36.4	15.8 18.4 28.2 12.8 16.5 20.4 37.9 31.3	14.7 17.7 24.6 11.8 18.4 19.5 35.9 25.1	13.7 16.3 23.7 14.0 19.0 19.8 33.7 23.4	12.8 17.1 23.4 15.4 18.2 19.0 32.1 24.1	12.8 19.8 21.9 14.6 18.4 18.4 33.9	11.9 19.8 18.6 14.3 16.3 17.6 32.2	12.0 20.1 15.9 14.3 15.3 17.3 33.4	12.6 21.8 15.1 14.1 15.4 19.2 31.9	15.0 22.4 14.4 14.6 16.9 22.7 34.7	15.7 23.1 13.9 15.8 17.6 29.5 37.3	17.1 26.6 13.9 16.2 17.4 35.9 39.9	14.1 20.2 20.2 14.3 17.1 21.4 35.3
BEEF-STEE	R/CORN	, Omaha	3/										
1971 1972 1973 1974 1975 1976 1977 1978	28.3 27.1 19.0 12.0 16.6 14.3 24.2 27.8 28.6	28.3 27.3 17.9 10.9 17.4 16.1 23.6 26.8 27.8	29.0 25.1 16.7 10.9 17.7 18.0 20.7 26.4 28.9	27.6 24.7 15.8 11.1 17.6 17.4 21.1 26.6 29.1	28.5 27.1 17.4 11.8 16.0 16.1 21.6 28.5 29.4	29.5 28.1 15.7 12.5 14.9 16.0 22.2 30.5 29.0	28.6 30.6 15.5 13.1 13.8 15.9 22.7 32.7 30.0	27.6 29.8 16.7 15.0 16.6 17.5 23.3 33.2 27.2	28.1 24.9 16.1 17.6 14.8 19.0 24.5 30.8 26.6	30.8 20.8 14.2 18.2 14.2 19.2 23.8 26.5 26.6	31.0 20.5 13.7 17.2 13.4 21.5 25.6 25.0 25.1	29.5 19.5 13.1 15.0 13.8 24.2 26.5 25.6 24.3	28.9 25.5 16.0 13.8 15.6 17.9 23.3 28.4 27.7
1980 1981 1982 1983 1984 1985 1986 1987	23.1 26.0 27.5 17.8 21.3 21.8 42.1 42.1	21.3 25.2 27.7 18.4 22.4 25.7 42.7	19.5 25.0 25.1 18.3 24.6 27.8 39.7 38.4	19.5 25.0 25.2 19.8 25.6 26.7 38.8 36.7	19.1 24.6 24.5 21.6 24.8 25.6 40.8 36.4	19.3 25.9 23.4 22.1 24.1 24.4 43.9	19.4 26.5 22.7 21.1 22.2 24.0 41.9	20.0 26.5 21.9 20.4 21.5 22.9 42.2	20.6 27.2 21.8 19.7 21.5 23.0 40.2	21.4 26.5 21.2 19.1 21.0 22.3 38.9	21.5 26.1 19.6 20.4 20.4 28.9 41.4	23.8 29.2 18.1 20.7 21.7 36.7 43.9	20.7 26.1 23.2 20.0 22.6 25.8 41.4
MILK/FEE), U.S.	basis	4/										
1971 1972 1973 1974 1975 1976 1977 1978	1.76 1.75 1.51 1.22 1.48 1.34 1.56 1.59	1.84 1.77 1.57 1.21 1.56 1.37 1.62 1.64	1.88 1.75 1.62 1.23 1.66 1.38 1.58 1.59	1.85 1.64 1.57 1.20 1.70 1.34 1.51 1.63	1.81 1.58 1.51 1.30 1.49 1.31 1.50 1.62 1.54	1.81 1.58 1.51 1.30 1.44 1.26 1.52 1.59	1.78 1.52 1.49 1.33 1.43 1.28 1.51 1.58	1.72 1.51 1.50 1.31 1.39 1.28 1.47 1.56 1.55	1.69 1.40 1.45 1.30 1.35 1.23 1.49 1.53	1.66 1.26 1.37 1.30 1.28 1.26 1.43 1.51	1.68 1.34 1.30 1.34 1.30 1.35 1.45 1.43	1.72 1.27 1.16 1.36 1.34 1.46 1.54 1.51	1.77 1.53 1.46 1.28 1.45 1.32 1.52 1.57
1980 1981 1982 1983 1984 1985 1986 1987 <u>2</u> /	1.40 1.48 1.57 1.36 1.48 1.51 1.61	1.43 1.53 1.61 1.39 1.56 1.56 1.75	1.40 1.56 1.62 1.36 1.62 1.55 1.77	1.39 1.54 1.60 1.34 1.59 1.53 1.77	1.39 1.55 1.59 1.33 1.57 1.52 1.74	1.39 1.53 1.56 1.33 1.57 1.50	1.41 1.53 1.55 1.34 1.55 1.48	1.39 1.51 1.49 1.32 1.51 1.48 1.62	1.35 1.46 1.45 1.32 1.47 1.46	1.36 1.47 1.43 1.32 1.45 1.45	1.40 1.47 1.45 1.35 1.44 1.51	1.43 1.50 1.41 1.40 1.47 1.55	1.40 1.51 1.53 1.35 1.52 1.51

Table 10. -- Feed-price ratios for livestock, poultry, and milk, by months, 1971-87 -- continued

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average
GG/FEED	, U.S.	basis 5	,										
971	7.1	6.9	7.2	8.2	7.1	7.0	7.6	6.5	6.4	6.4	7.0	6.9	7.0
972	7.7	6.9	8.0	8.7	9.0	7.3	7.7	7.9	6.9	6.4	7.1	8.3	7.7
973 974	6.5	8.2	8.6	8.5	8.8	8.4	7.5	7.0	6.2	5.8	6.2	5.7	7.5
975	6.7 7.5 7.7	6.5 7.1 7.8	6.6	9.0	7.2 8.6	7.2 8.2	7.4	6.5	6.5 7.5 5.9	6.8	6.4	6.8 7.6	6.8
976	7.7	7.8	8.1	9.1	8.5	8.1	7.4 7.3 7.4	6.8	5.9	5.8	6.7	7.2	7.5
977	7.6	7.1	7.3	9.1	6.7	8.1	7.4	6.7	6.3	5.6	6.4	7.2	6.9
978	7.3	7.0	7.5	8.0	7.8	7.7	8.0	7.4	6.9	6.7	6.1	6.1	7.2
979	6.4	6.1	6.8	7.3	6.6	6.0	6.4	6.0	5.4	5.6	5.7	6.0	6.2
1980 1981	6.2	5.7	6.0	6.6	5.9	5.7	5.6 7.1	5.9	5.2	5.2 5.3 5.8	5.5	5.8	5.8
1982	6.0	6.3	63	6.0	5.7	5.8	6.1	5.8	6.0	5.8	5.7	6.1	6.0
1983	6.0	6.2	6.9 6.5 7.5 8.0	7.7	8.8	8.5	7.4	8.6	6.5	5.8	5.8	5.8	7.0
1984	5.9	5.7	6.5	6.3	5.4	5.6	6.3	5.7	5.5	5.9	5.8	6.5.	5.9
1985	7.1	7.3	7.5	7.4	7.2	6.9	7.6	6.4	6.4	5.7	6.9	7.3	7.0
1986	7.3		8.0	7.9	7.2	7.1	6.6	6.7	6.7	6.1	5.8	5.7	6.8
1987 2/	6.7	6.1	6.6	5.8	5.6								
		U.S. bas	_										
1971	2.9	2.7	2.7	2.5	2.8	3.1	3.1	2.7	2.8	3.0	3.3	3.0	2.9
1972	3.2	2.9	2.7	2.6 2.3 2.4	2.9 2.5 2.7	3.1	3.5 2.7 2.9	3.9	3.3	2.9	3.4	4.0 2.3 2.6	3.2
1973 1974	3.5	2.9	2.5	2.3	2.7	2.8	2.1	2.7	2.7	2.5	2.6	2.5	2.7
1975	3.6	3.5	3.4	3.0	3.1	3.2	3.1	3.0	3.1	2.8	2.8	2.7	3.1
1976	2.5	3.5	2.3	3.0	2.5	3.2	2.7	2.6	2.6	2.7	3.0	2.7	3.1
1975 1976 1977	3.6 2.5 3.1	3.0	3.4 2.3 2.7 2.8	2.6	3.1 2.5 2.8	3.0	3.1 2.7 3.0	3.0 2.6 3.3 3.0	3.1 2.6 3.3	2.8 2.7 3.5 2.9	2.8 3.0 3.7	3.1	3.1
1978 1979	3.1	2.9	2.8	2.6 2.9 2.7	3.1	3.3	3.1	3.0	3.2	2.9	2.5	3.1 2.3 3.0	2.9
1960	2.9	2.8	2.5		2.6	2.6	2.6	2.3	2.4	2.6	2.6	2.5	2.6
1981	2.4	2.4	2.4	2.5	2.6	2.6	2.6	2.5 2.3 2.7	2.6	2.7	2.6	2.5	2.5
1982	2.6	2.5	2.5	2.5	2.6	2.7	2.4	2.3	2.4	2.6	2.8	2.8	2.6
1983	2.7	2.5	2.8	2.9	3.1	3.1	3.1	2.7	2.7	2.7	3.0	2.7	2.8
1984	2.8	2.6	2.8	2.7	2.9	2.9	2.8	2.8	3.1	3.2	3.1	3.1	2.9
1985	3.2	3.1	2.8 3.5 3.9	2.7 3.2 3.5	3.2	3.1	2.8 3.1 3.3	3.1	3.4	3.7	4.5	4.6	3.4
1986 1987	3.0	2.6	2.7	2.5	3.6	3.5	3.3	3.2	3.3	3.0	2.9	3.3	3.5
				2.3	2.0								
		.S. bas											
1971	4.7	4.7	4.8	5.1	4.9	4.8	4.7	4.6	4.5	4.5	4.4	4.4	4.7
1972	4.3	4.3 5.0	4.5	4.4	4.0	3.7	4.1	4.8	4.2	3.8	3.9	4.3	4.2
1973	3.0	3.0	5.3	3.6	3.6	3.7	3.8	3.6	3.8	3.9	4.2	12	3.6
1975	4.2	4.3	4.5	4.4	4.0	3.9	4.0	3.9	3.9	3.5	3.3	3.4	3.9
1976	3.4	4.3 3.5 4.3	4.5	4.4	4.0 3.5 4.3	3.4	3.6	3.4	3.4	3.5	3.5	3.4 3.8 4.8	3.5
1977	4.0	4.3	4.5	4.5	4.3	4.2	4.3	4.2	4.3	4.4	4.5	4.8	4.4
1978	4.9	5.0	5.1	5.4	5.0	4.6	4.3	4.3	4.2	3.9	3.5	3.7	4.5
1979	3.7	3.9	4.5	4.3	3.8	3.6	3.5	3.4	3.1	3.1	3.5	3.5	3.7
1980	3.7	4.0	3.9	3.5	3.1	3.1	3.2	3.0	3.0	3.3	3.3	3.2	3.4
1982	3.8	2.8	3.1	3.0	2.9	2.0	2.9	2.7	2.9	3.0	2.8	3.5	3.1
1983	3.0	3.0	3.1	3.5	3.6	2.9	3.3	3.3	3.3	3.3	3.6	3.8	3.3
1984	3.9	4.4	5.0	5.5	4.7	3.8	3.7	3.7	3.7	3.8	4.2	4.5	4.2
1985	3.9 5.0	4.4	5.0 5.5	5.5	3.4	3.4	3.5	3.7 3.8	3.5	4.3	4.5	4.6	4.4
1986	4.7	4.9	4.8	4.0	3.3	3.4	3.6	3.5	3.3	3.3	3.1	2.9	3.7
1987	2.8	2.8	3.1	3.5	2.8								

^{1/} Bushels of corn equal in value to 100 pounds of hog, live weight. 2/ Preliminary. 3/ Based on price of Choice beef-steers, 900-1,100 pounds. 4/ Pounds of 16-percent mixed dairy feed equal in value to I pound whole milk. 5/ Pounds of laying feed equal in value to I dozen eggs. 6/ Pounds of broiler grower feed equal in value to I pound broiler, live weight. 7/ Pounds of turkey grower feed equal in value to I pound of turkey, live weight. *Beginning March 1986 data reported shifted from monthly to quarterly. Monthly data reported in May 1987 Agricultural Prices.

Source: Agricultural Prices, Agricultural Statistics Board, USDA.

Table II.--Byproduct feeds: Average wholesale price a ton, bulk, specified markets, by months, 1970 to date

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average
	-					Do	llars pe	r ton					
Distille	ers' drie	d grains	, Lawrenc	aburg, li	ndiana								
1970 1971 1972 1973 1974 1975 1976 1977 1978	61.00 66.60 124.50 154.10 123.20 125.50 104.40 113.60 143.70 160.00	64.75 61.00 70.60 119.20 123.80 121.75 127.25 112.25 116.00 153.00	66.75 59.00 73.50 117.50 147.50 110.40 126.00 117.10 122.00 147.50	66.90 58.00 77.50 126.25 136.00 97.60 133.00 123.00 128.50 145.00	68.25 59.00 87.30 129.70 127.50 107.75 141.25 124.60 130.00 143.60	68.75 58.70 98.75 123.90 115.50 114.50 145.00 124.00 130.00 134.70	64.50 58.00 103.60 106.25 102.00 107.60 142.60 123.75 128.00 124.00	61.00 60.10 98.00 94.00 99.20 102.50 141.00 123.00 121.50	61.00 62.25 95.70 90.50 100.25 101.50 143.50 124.00 120.30 122.60	61.00 64.25 126.50 92.75 102.00 110.20 143.10 125.60 122.90 126.00	64.00 64.00 126.40 98.00 107.60 123.00 130.75 124.50 131.40 132.00	65.00 65.10 141.75 120.00 119.25 126.40 110.70 118.60 139.00 144.50	64.41 61.33 102.00 114.35 116.98 112.39 132.38 121.17 127.78 137.83
1980 1981 1982 1983 1984 1985 1986 1987	150.00 150.00 137.60 167.50 139.00 96.50 131.50 118.00	165.75 151.25 136.25 175.00 120.10 99.70 129.00 118.25	171.25 153.75 137.00 183.20 96.50 105.25 128.60 122.50	175.20 148.00 137.00 189.75 93.00 110.80 124.80 128.40	175.25 146.25 138.75 190.00 94.25 115.00 113.25 138.75	167.50 147.60 136.75 185.00 96.00 113.75 110.10	153.00 139.40 140.20 173.50 94.00 109.50 105.10	145.10 136.50 144.50 165.50 87.40 112.40 100.75	155.25 142.00 147.00 168.00 83.25 111.90	164.40 147.00 150.20 165.75 85.00 109.75 116.00	164.50 153.00 150.60 156.60 88.75 102.10 118.25	156.00 145.25 155.60 147.75 95.50	161.93 146.67 142.62 172.30 97.73 107.88 117.13
Brewers	' dried g	rains, M	i Iwaukee										
1970 1971 1972 1973 1974 1975 1976 1977 1978	57.30 46.90 60.10 98.50 97.25 B6.80 120.50 85.00 92.25 116.00	56.90 47.50 67.80 112.60 111.00 99.00 119.00 88.60 104.60 124.80	54.50 48.00 74.90 117.60 120.25 93.25 120.60 98.10 112.00 115.10	55.90 50.50 87.00 122.25 108.80 89.00 130.10 108.25 113.50 116.70	60.90 56.10 95.00 122.40 98.50 104.40 134.50 101.20 113.20 120.80	56.50 51.90 93.25 103.00 71.00 92.60 127.10 89.50 111.75 109.00	49.40 49.50 76.50 81.25 75.40 95.60 114.40 93.00 100.75 96.25	46.50 51.25 66.10 88.90 92.10 84.90 105.00 88.00 81.20 93.00	48.75 51.70 93.30 81.50 72.40 88.20 126.75 82.40 89.00 105.25	49.20 49.40 106.75 63.40 74.25 96.60 121.10 87.00 107.50 103.75	45.50 46.00 82.20 81.60 86.10 100.90 86.75 75.75 115.00 107.00	46.90 50.80 108.75 119.40 92.40 105.90 82.80 74.20 109.50 115.00	52.35 49.96 84.30 99.36 91.62 94.76 115.72 89.25 104.19 110.22
1960 1961 1982 1983 1984 1985 1986 1987	118.60 99.60 91.25 122.25 83.80 70.60 68.70 85.00	133.75 109.25 102.90 127.75 77.30 74.50 83.10 91.90	145.25 117.50 102.40 128.10 63.40 71.25 101.25 105.60	149.00 99.40 108.50 136.00 78.25 93.00 118.00	149.25 103.25 113.10 141.00 86.40 106.25 100.60 118.75	121.75 97.50 97.60 136.25 61.25 71.90 61.50	93.80 85.00 95.60 123.50 46.25 58.10 50.50	95.75 104.25 106.00 47.00 81.50 68.00	98.50 104.00 98.40 53.10 78.75 81.90	94.20 89.00 102.00 102.40 70.00 67.10 77.00	85.00 88.00 106.00 88.00 60.50 61.25 71.90	95.75 87.40 108.60 80.25 50.60 61.25 78.10	117.58 97.52 103.02 115.82 64.82 74.62 80.04
Corn gl	uten feed	i, 21% pr	otein, l	Ilinois P	oints								
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	50.00 40.00 49.75 92.25 91.00 88.60 114.00 78.00 96.25 129.00	52.50 40.00 54.40 92.50 100.00 90.25 115.10 78.00 107.60 134.00	54.00 44.00 58.80 94.40 103.75 86.50 108.00 89.60 113.50 132.50	57.00 51.00 68.50 105.75 92.80 87.60 117.50 103.25 115.40 135.00	59.00 52.75 79.80 108.20 90.25 92.75 125.25 101.60 118.60 140.00	50.25 47.20 79.25 85.25 80.50 87.00 122.00 91.50 122.00 138.75	50.00 48.50 77.25 79.00 77.00 83.00 110.60 89.00 121.60 120.60	48.50 48.75 66.00 74.60 88.40 82.50 114.80 91.00 120.50 105.00	48.00 46.40 72.00 75.75 80.00 90.00 117.50 89.60 117.90 113.75	48.00 43.50 78.25 72.00 81.60 98.10 108.80 88.00 122.50 113.75	45.00 45.10 79.00 83.00 83.90 106.00 89.00 88.00 131.00	41.60 48.00 97.00 120.70 91.50 107.90 80.40 89.60 130.00 123.70	50.32 46.27 71.67 90.28 88.39 91.68 110.25 89.76 118.07
1980 1981 1982 1983 1984 1985 1986	130.00 108.50 115.00 135.00 69.40 81.25 97.80 96.50	126.25 110.00 109.50 140.60 76.00 86.60 105.50 98.50	131.25 110.00 111.20 136.00 80.10 89.00 109.75 106.00	138.00 113.80 120.00 136.25 80.60 91.80 99.20 110.00	140.00 117.00 125.00 135.00 79.80 92.50 97.90 118.10	120.00 117.00 117.50 118.75 73.90 89.60 98.10	114.50 112.00 112.80 111.25 61.60 97.10 99.60	121.25 112.00 110.00 113.75 59.70 96.00 98.40	122.40 112.00 111.75 106.00 63.25 90.00 96.90	111.00 112.00 114.00 83.75 68.50 87.50 93.80	101.75 114.25 120.00 79.70 74.10 84.30 91.25	107.25 110.40 127.00 78.75 78.00 88.10 92.40	121.97 112.41 116.15 114.57 72.08 89.48 98.38

Continued

Table II.—Byproduct feeds: Average wholesele price a ton, bulk, specified markets, by months, 1970 to date—continued

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average
						Do	liars per	r ton					
orn glu	iten meal	60% pro	otein, II	linois Po	oints	-							
970	146.00	143.00	134.50	130.00	130.50	132.00	132.00	132.00	134.00	134.00	136.00	135.60	134.97
971	131.00	126.00	134.50	130.00	121.25	132.00	130.50	132.00	142.00	134.00	149.25	150.80	133.32
972	143.00	133.00	132.80	158.00	191.20	238.50 267.75 181.25	266.25 267.50 191.50	257.00	303.60	394.50	316.30	276.00	234.18
973 974	221.25	210.70	200.75	234.25 204.00	246.80 198.50	181.25	191 50	254.00 209.60	204.90	180.00	214.50	263.40	230.48
975	229.20	221.60 237.75	238.25	241.00	248.00	254.00	250.80	208.10	211.00	212.00 209.30	215.20 257.40	222.00 270.20	235.79
976	294.00	298.00	267.80	246.00	258.00	288.75	297.80	287.50	296.00	294.40	275.90	208.20	276.03
977	182.00	182.60	267.80 215.30	243.75	250.00	250.00	297.80 248.75	287.50 245.50	220.00	213.75	275.90 201.75	216.00	222.45
978	232.75	249.20	243.75	243.75	252.60	271.90	280.00	270.00	234.00	241.75	304.10	325.00	262.40
979	316.90	275.00	260.60	263.10	269.00	246.25		206.00	211.90	220.00	233.00	268.10	249.36
980	302.00	288.75	296.25	302.00	307.50	292.50	239.00	235.00	256.25	261.00	237.50	249.40	272.26
1981 1982	260.00	245.25 207.50	244.40	260.50 246.25	275.00	271.25 267.50	243.00	225.00 238.75	225.00	228.00	237.50 242.50	229.50 300.00	245.37
983	326.25	308.75	283.00	275.00	284.00	258.75	245.00	256.25	271.00	266.25	236.75	218.75	269.15
984	213.80	211.30	215.60	240.00	232.00	215.60	203.75	191.00	172.50	169.20	174.50	198.10	203.1
1985	211.25	208.70	208.75	219.50	219.40	208.10	198.75	192.90	210.60	216.90	211.50	206.25	209.38
986	208.00	222.50	230.60	241.50	232.20	206.25	208.50	213.10	226.40	267.80	268.75	240.60	230.52
987	259.50	278.75	305.60	313.50	309.40								
leat an	d bone me	al, Kans	as City										
970	96.00	96.60	101.10	101.50	102.90	93.75	99.30	92.75	92.10	95.60	94.75	98.00	97.0
971	98.25	96.40	94.00	95.00	100.00	104.40	118.90	121.25	117.50	118.75	127.40	131.30	110.2
1972 1973	126.90	134.20	154.40	184.40 328.75	224.00 306.00	266.25	240.00	192.50	315.00 143.75	398.10	343.50	355.00	244.5
1973	201.90	174.00	220.00 153.10	155.40	152.50	221.25	137.50	139.00	149.40	138.10	175.00	196.25	153.4
1975	135.00	183.00	141.90	150.50	158.10	158.10	159.00	163.10	205.00	253.50	232.50	184.00	175.8
1976	203.75	183.75	210.50	240.00	261.25	237.50	259.00	288.75	270.00	222.00	168.75	169.50	226.2
1977	193.75	183.75	210.00	186.40	189.00	186.25	241.90	210.60	204.50	210.00	204.40	202.50	201.9
1978	218.75	233.50	228.60	230.00	229.50	266.90	264.40	253.10	239.50	265.00	254.50	219.40	241.9
1979	238.10	236.50	233.75	231.90	229.50	248.20	253.75	208.50	183.75	194.40	255.50	248.60	230.2
1980	275.50	288.60	300.60	264.50	258.75	237.50	231.50	245.00	246.25	235.00	247.50	240.10	255.9
1981	234.50	230.25	221.90	211.00	206.25	209.40	211.00	220.60	208.75	208.00	204.40	192.00	213.1
1982 1983	186.25	183.75	209.30 238.50	210.60	225.00	232.50 209.40	231.00	246.90 218.75	213.10	199.50	198.75 176.50	244.50 169.40	215.11
1984	162.80	178.00	177.50	175.60	175.70	173.10	227.50 146.25	126.40	108.10	120.00	130.40	140.60	151.2
1985	151.25	164.75	170.60	173.50	168.75	152.80	160.00	150.00	170.90	175.00	173.20	178.40	165.7
1986	187.10	183.10	189.40	198.50	175.25	173.10	178.60	191.90	216.90	222.00	222.40	209.75	195.6
1987	212.50	221.00	233.20	242.50	238.75								
Fish me	al, 65% p	rotein:	Domesti	c, East C	Coast								
1970	174.00		190.00	187.00	182.00	178.75	179.00	174.50	170.00	154.30	152.75	162.00	174.3
1971	160.00	160.00	160.00	162.00	164.00	165.00	165.25	160.25	180.20	176.75	179.50	191.80	168.7
1972	199.00	216.00	231.25	280.00 587.50	375.00	411.90	420.00	407.50 337.00	465.00	570.00	536.00	490.60	383.5 392.2
1973 1974	462.50	420.00	200 75	275.00	538.00	229 75	405.00	337.00	276.25	258.75	252.00	312.50 251.25	251 0
1975	271.25 257.00	299.00 268.75	298.75	275.00 267.00	256.25 271.90	228.75 272.00	220.00 279.00	240.00	225.00 282.50	219.00	237.50 383.75	332.50	251.8
1976	366.25	363.10	368.50	402.50	405.00	423.10	437.50	481.25	489.50	421.25	313.30	319.40	399.2
1977	335.00	342.50	353.00	363.75	365.00	362.50	377.50	395.00	373.00	356.25	316.90	333.50	356.1
1978	353.75	370.00	388.75	391.25	388.00	383.75	395.00	406.25	390.00	375.00		355.00	381.5
1979	353.75	366.00	370.00	381.25	391.50	403.75	398.75	375.00	355.00	342.50	365.00	380.00	373.5
1980	427.00	460.00	502.50	490.00	468.75	421.25	405.00	418.75	413.75	404.00		365.00	430.0
1981	378.00	383.75	370.00	354.00	370.00	377.50	377.00	360.00	360.00	335.00		315.50	357.2
1982	311.25	324.25	346.00	370.00	375.00	370.00	363.00	362.50	357.50	336.50	325.00	397.00	353.1
1983	415.00	425.00	423.50	407.50	392.60	373.75	383.75	381.25	360.00	354.00		298.75	378.6
1984 1985	291.90	295.00 284.50	309.50 259.00	308.25 297.50	308.90	290.90 287.50	280.60 320.00	280.00	231.75 286.90	208.90 272.50		207.25	268.2
1986	320.40	318.00	317.50	315.80	313.30	315.75	N.Q.	N.Q.	335.80	359.50		363.10	331.2
1987	364.30	372.50	401.25	449.50	448.75	2.20.2							

Table II.--Byproduct feeds: Average wholosalo price a ton, bulk, specified markets, by months, 1970 to date--continued

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Avera
						Do	llars per	r ton					
lominy f	eed, III	Inois Po	ints										
1970	49.80	45.90	47.20	53.30	52.40	43.40	46.70	47.90	45.10	47.00	45.50	40.30	47.0
1971	33.50 47.60	36.25	38.60	44.10	40.60	35.90	38.75	41.25	34.30	33.75	37.50	42.10	38.0
1972	47.60	44.80	49.40	54.50	54.50	47.90	47.90	43.25	63.20	77.60	73.60	98.75	58.5
973	76.00	81.50	90.75	95.00	92.20	90.90	88.40	87.20	79.90	79.10	101.00	124.75	90.5
974	99.10	116.00	115.00	103.00	93.00	74.75	74.75	87.50	78.20	79.75	80.00	91.60	91.0
975	93.00	82.90	81.25	81.80	83.00	81.00	77.30	75.40	85.90	94.20	99.90	90.10	85.4
976	92.40 57.00	85.40	76.60	83.90	83.90 67.70	82.25	73.90	79.75	78.50	76.70	62.90	50.70	77.2
977	57.00	61.50	67.40	75.00	67.70	70.50	72.25	72.60	78.10	81.25	67.50 94.20	63.70 93.75	69.5 77.8
1978	65.10 94.70	68.50	78.10	69.50 91.20	69.20	76.75	71.90 77.50	73.00 79.00 111.25	83.60 82.00 108.25	91.00	94.20	93.75	85.8
979	94.70	85.70	82.50	91.20	84.80 118.25	75.00	77.50	79.00	82.00	81.25 95.90	90.00	106.00	107.7
980	116.20	105.75	118.50	121.80	01.75	103.50	99.80	70 50	05.20	85.80	99.75 81.75	70.90	70 8
1981 1982	88.10 73.90	88.25 73.00	83.75	79.60 79.60	81.75	69.00 80.75	65.20 88.60	79.50	109.50	109.00	112.75	116.80	79.8
1983	121.50	118.75	122.20	117.50	114.40	105.50	108.25	109.75	102.80	102.75	96.90	97.50	109.8
984	101.80	88.70	76.90	78.75	81.00	73.90	70.25	78.70	82.75	78.30	83.10	80.25	81.2
1985	76.75	76.50	77.25	85.80	85.00	84.90	84.50	86.40	85.25	B2.50	72.40	74.25	80.9
1986	75.00	61.60	65.75	64.40	60.50	58.75	51.50	52.75	67.00	69.40	73.60	70.75	64.2
987	64.70	65.60	71.00	80.20	80.40	20012	2						
lehydrat	red alfal	fa meal-	17% prote	in (regn	ound), K	ansas Cit	Y						
1970	46.00	46.20	48.40	48.90	48.90	49.90	50.70	52.50	49.25	44.60	45.75	46.00	48.0
1971	46.00	46.00	46.80	48.75	49.75	49.70	49.70	49.40	49.70	45.80	47.10	48.20	48.0
1972	46.00 50.00	53 00	46.80 62.60 103.60 89.25	75.70	92.80	106.70	94.80	70.80	71.40	72.70	74.50 76.70	83.20	75.6
1973	77.60 89.75	101.50	103.60	104.70	104.80	102.60 77.10	94.20	82.00 75.90	75.40 77.00	68.20 74.70	76.70	93.75 81.50	90.4
1974	89.75	92.00	89.25	87.00	84.25	77.10	74.40	75.90	77.00	74.70	76.60	81.50	81.6
1975	82.60 115.20	87.30	92.40	98.70	110.20	108.20	111.40	95.30	91.40	94.20	99.90	103.00	98.9
1976	115.20	115.50	111.10	112.10	112.80	111.30	104.25	95.30	91.40	85.00	74.90	66.40	99.6
1977	64.30	67.90	70.90	74.40	73.20	72.80	80.90	82.60	77.50	76.20	76.90	77.20	74.5
1978	81.20	92.90	98.90	99.20	100.60	103.50	105.10	104.60	102.30	99.50	102.80	98.80	99.1
1979	100.80	111.00	112.10	112.60	112.60	112.80	110.60	104.90	100.10	96.80	104.00	118.10	108.0
1980	120.10	122.70	132.00	136.20	135.50	131.90	125.60	126.10	118.00	112.40	112.60	108.60	123.4
1981	106.00	109.40	110.20	110.10	109.40	105.40	99.90	99.80	105.80	105.90	103.80	102.50	105.6
1982	105.40	109.60	115.50	118.80	119.60	121.10	121.10	131.10	136.10	115.70	114.80	120.10	119.0
1983	123.60	128.90	131.90	134.10	139.70	143.60	141.10	142.40	143.30	117.40	110.10	109.40	130.4
1984	111.80	114.50	117.20	115.40	97.70	104.80	95.50	94.30	91.70	87.25	86.90	85.80	101.3
1985	86.10	88.80	92.60	94.90	97.70	97.60	99.10	104.10	99.80	92.50	79.70	81.40	92.8
1986	84.20	86.60	90.10	94.50	96.40	95.60	94.60	96.60	96.40	90.00	90.60	91.60	92.2
1987	93.80	100.10	101.60	103.50	105.25								
	s beet pu												
1970	48.00	48.30	48.30	53.90	57.70	57.70	57.70	57.70	57.00	55.20	55.40	55.40	54.3
1971	54.90	53.40	53.80	55.50	55.60	55.60	55.60	55.60 73.20	56.20	58.60	58.60	58.75	56.0
1972	59.25	59.60	61.60	66.60	73.80	73.80	73.80	73.20	71.30	72.60	71.30	71.30	69.0
1973	90.60	101.50	108.00	108.00	110.50	112.60	111.30	101.00	92.75	90.40	97.75	111.40	102.9
1974	128.25	130.00	131.00	126.60	117.50	108.75	96.00	85.40	87.00	84.75	90.90	104.90	107.5
1975	117.60	116.00	111.25	109.00	108.00	108.00	106.60	101.00	101.00	101.40	103.25	104.00	107.2
1976 1977	103.50 85.75	101.75 83:25	101.75	101.40	99.70	101.75	105.00	100.90	99.00	96.70	94.90	91.60	99.8
1978	102.75	109.10	84.60 113.75	88.75	93.40 116.80	96.80 118.00	102.50	101.10	101.80	100.80	103.40	101.50	95.3
1978	122.60	130.60	139.00	141.25	141.25	129.40	118.00	118.25	110.00	111.75	118.50	120.50	113.9
1980	127.50	127.40	134.60	142.00	143.90	152.50	N.Q.	137.60	130.75	123.00	122.60	119.25	132.8
1981	116.00	108.75	108.75	112.25	116.70	121.40	123.50	111.50	113.50	114.70	115.10	116.50	114.8
1982	114.60	119.00	119.00	122.90	121.40	120.00	123.00	124.50	125.00	123.00	119.10	120.20	120.9
1983	130.00	130.60	130.00	N.Q.	N.Q.	N.Q.	N.Q.	123.00	121.80	121.00	124.80	124.00	125.6
1984	118.00	120.30	123.50	124.60	129.50	130.00	125.10	120.10	112.60	105.50	105.90	106.00	118.4
1985	104.00	107.00	111.50	117.40	119.00	121.00	118.50	111.40	105.25	99.50	96.50	96.00	108.9
1986	91.40	90.00	91.90	95.80	103.00	105.00	101.00	94.60	88.75	88.50	88.50	89.50	94.0
1987	89.50	90.25	92.25	95.50	99.50								

N.Q.=No quotes. Source: Grain and Feed Market News, AMS, USDA.

Table 12.--Corn, sorghum, barley, and oats exports, 1975/76 to date

Year	:	CORN		SORGHUM	: Year :	BARLE	Y	OAT	S
month	: Grain : only	Total process	Grand total	GRAIN	month:	Grain	Total	Grain only	Total
	1	Ba	ishels		1 1075		Bu	shels	
1975/76 Sept Oct Nov	: 75,053,640 : 132,616,891 : 165,253,446	1,901,587 1,149,080 954,713	76,955,227 133,765,971 166,208,159	27,989,402 15,087,217 23,107,812	: 1975/76 : June : July : Aug : Sept :	836,264 1,950,140 940,228 368,773	975,155 2,047,409 1,013,720 415,306	57,472 206,451 156,478 1,707,307	61,893 405,851 311,810 1,857,893
st Qtr	372,923,977	4,005,380	376,929,357	66,184,431	: Ist Qtr :	4,095,405	4,451,590	2,127,708	2,637,447
Dec Jan Fab	: 152,819,984 : 137,508,424 : 136,507,142	898,188 888,234 889,938	153,718,172 138,396,658 137,397,080	25,175,934 28,001,886 19,016,748	Oct : Nov : Dec :	3,232,356 1,374,011 4,898,838	3,290,346 1,430,450 4,971,035	2,690,989 2,673,189 2,451,702	2,782,316 2,828,325 2,485,337
2nd Qtr	: 426,835,550	2,676,360	429,511,910	72,194,568	2nd Qtr	9,505,205	9,691,831	7,815,880	8,095,978
Har Apr Hay	: 128,992,136 : 164,220,528 : 153,177,354	1,110,091 1,145,567 860,161	130,102,227 165,366,095 154,037,515	21,010,849 16,787,280 3,622,364	: Jan : : Feb : : Mar :	1,015,730 137,889 2,081,973	1,099,219 268,500 2,204,333	92,717 164,429 - 96,554	227,968 332,902 102,936
3rd Qtr	446,390,018	3,115,819	449,505,837	41,420,493	: 3rd Qtr	3,235,592	3,572,052	353,700	663,800
June July Aug	: 159,436,466 : 138,125,613 : 120,781,441	1,202,546 1,200,167 1,015,301	160,639,012 139,325,780 121,796,742	7,894,661 22,413,313 22,054,372	: Apr : Hay :	1,330,542 4,634,179	1,404,961	196,085 1,783,345	505,096 1,807,957
Ith Qtr	418,343,520	3,418,014	421,761,534	52,362,346	: 4th Qtr	5,964,721	6,059,159	1,979,430	2,313,05
TOTAL	:1,664,493,065	13,215,573	1,677,708,638	232,161,838	TOTAL	22,800,923	23,774,632	12,276,718	13,710,28
1976/77 Sept Oct	: : 109,747,811 : 178,936,003 : 180,098,843	875,408 816,467 974,715	110,623,219 179,779,470 181,073,558	24,870,524 16,635,698 20,549,541	: 1976/77 : June : July : Aug : Sept	1,303,146 3,287,074 3,478,167 6,615,438	1,462,324 3,355,973 3,498,931 6,722,402	365,100 61,659 2,244,591 1,920,409	399,404 253,986 2,297,466 1,928,143
lst Qtr	: 468,782,657	2,666,590	471,476,247	62,055,763	lst Qtr	14,683,825	15,039,630	4,591,759	4,879,00
Dec Jan Feb	: 136,223,158 : 126,956,735 : 119,422,523	891,377 757,643 998,871	137,114,535 127,714,378 120,421,394	24,648,500 25,601,274 30,474,848	: Oct	13,048,078 7,064,569 7,109,317	13,356,005 7,271,589 7,222,045	570,607 2,149,816 603,985	867,35 2,187,00 630,52
2nd Qtr	382,602,416	2,647,891	385,250,307	80,724,622	2nd Qtr	27,221,964	27,849,639	3,324,408	3,684,87
Mar Apr May	: 150,674,935 : 141,387,428 : 138,834,555	734,269 993,996 927,246	151,409,204 142,381,424 139,761,801	27,022,891 20,838,684 13,598,209	Jan : Fab : Har	3,290,070 8,348,213 975,528	3,380,086 8,453,835 1,069,154	84,385 29,925 57,808	146,66 167,52 217,29
3rd Qtr	430,896,918	2,655,511	433,552,429	61,459,784	: 3rd Qtr	12,613,811	12,903,075	172,198	531,48
June July Aug	: 125,506,250 : 116,130,094 : 121,200,994	1,323,324 1,038,968 1,068,623	126,829,574 117,169,062 122,269,617	10,599,319 20,078,292 18,996,553	: Apr : May	1,620,641 8,647,500	1,798,769 8,739,038	26,399 179,887	191,16
4th Qtr	362,837,338	3,430,915	366,268,253	49,674,164	4th Qtr	10,268,141	10,537,807	206, 286	542,36
TOTAL	1,645,119,329	11,400,907	1,656,547,236	253,914,333	TOTAL	64,787,741	66,330,151	8,294,651	9,637,72
1977/78 Sept Oct Nov	: : 137,146,892 : 118,932,956 : 143,025,556	1,095,916 1,155,447 893,055	138,242,808 120,088,403 143,918,611	17,077,461 8,628,406 17,228,249	: 1977/78 : June : July : Aug : Sept	7,678,469 11,291,749 6,149,089 9,278,826	7,749,102 11,439,168 6,260,217 9,462,496	485,973 412,342 1,064,326 48,597	621,81- 566,72 1,109,15 359,15
lst Qtr	399,105,404	3,144,418	402,249,822	42,934,116	: Ist Qtr	34,398,133	34,910,983	2,011,238	2,656,84
Dec Jan Feb	: 153,111,226 : 126,914,873 : 127,836,745	1,207,979 923,086 829,941	154,319,205 127,837,959 128,666,686	30,106,414 21,237,901 22,910,641	: Oct : Nov : Desc	8,026,753 2,186,923 3,856,164	8,071,324 2,354,670 4,003,955	1,155,584 2,896,689 2,369,271	1,289,87 3,064,13 2,428,97
2nd Qtr	407,862,844	2,961,006	410,823,850	74,254,956	2nd Qtr	14,069,840	14,429,949	6,421,544	6,782,96
Mar Apr May	: 156,643,619 : 160,804,806 : 206,846,481	1,393,115 1,043,694 1,455,592	158,036,734 161,848,500 208,302,073	23,826,344 17,768,956 18,074,476	: Jan : Feb : Mar	: 1,413,634 : 271,263 : 145,741	1,597,572 466,385 258,834	217,675 394,969 28,124	406,38 682,45 445,15
3rd Qtr	524,294,906	3,892,401	528,187,307	59,669,776	: 3rd Qtr	1,830,638	2,322,791	640,768	1,533,99
June July Aug	: 214,018,311 : 171,102,334 : 180,012,802	751,873 987,750 1,074,040	214,770,184 172,090,084 181,086,842	10,145,984 19,738,833 16,098,547	: Apr : May	2,017,960 3,180,917	2,269,261 3,272,925	23,525 905,899	261,33
4th Qtr	: 565,133,447	2,813,663	567,947,110	45,983,364	: 4th Qtr	5,198,877	5,542,186	929,424	1,297,47
TOTAL	: 1,896,396,601	12,811,488	1,909,208,089	222,842,212	TOTAL.	55,497,488	57,205,909	10,002,974	12,271,29

Table 12.--Corn, sorghum, barley, and oets exports, 1975/76 to date--continued

Year	:	CORN		SUBCERIM	Year :	BARLE	Y	OAT	S
and month	: Grain : only	Total process	Grand total	SORGHUM GRAIN	: and : : month : : : : : : : : : : : : : : : : : : :	Grain	Total	Grain	Total
		В	ushels		: :		Bu	ishels	
1978/79 Sept Oct Nov	: : 176,033,904 : 139,263,490 : 153,542,028	827,179 718,259 771,927	176,861,083 139,981,749 154,313,955	7,735,700 8,615,589 18,954,600	: 1978/79 : June : July : Aug : Sept :	4,205,002 5,066,677 4,929,079 4,242,932	4,353,093 5,156,021 5,006,603 4,291,050	435,464 1,303,880 5,293,313 48,251	588,12 1,668,02 5,369,59 250,89
st Qtr	468,839,422	2,317,365	471,156,787	35,305,889	i Ist Qtr i	18,443,690	18,806,767	7,080,908	7,876,62
Dec Jan Feb	: 158,883,560 : 129,906,845 : 124,518,081	826,213 949,696 576,007	159,709,773 130,856,541 125,094,088	18,988,714 19,285,385 26,989,459	: Oct :: Nov :: Dag ::	3,080,214 978,381 266,814	3,167,923 1,019,054 471,044	1,343,835 285,557 1,227,047	1,576,21 519,77 1,336,34
and Qtr	: 413,308,486	2,351,916	415,660,402	65,263,558	: 2nd Qtr :	4,325,409	4,658,021	2,856,439	3,432,3
Mar Apr May	: 169,263,126 : 187,095,271 : 198,288,881	1,040,501 986,476 846,694	170,303,627 188,081,747 199,135,575	22,069,207 13,038,349 14,922,212	: Jan : : Feb : : Mar :	574,365 46,265 3,735	682,389 107,278 41,817	41,947 28,584 54,088	283,4: 130,70 288,8
ird Qtr	554,647,278	2,873,671	557,520,949	50,029,768	: 3rd Qtr	624,365	831,484	124,619	710,9
June July Aug	: 229,474,993 : 221,669,115 : 225,178,576	1,302,191 1,002,267 706,245	230,777,184 222,671,382 225,884,821	9,452,058 13,011,285 17,029,193	Apr :	220,154 1,035,595	309,868 1,091,820	81,658 195,887	237,2° 418,6
Ith Qtr	: 676,322,684	3,010,703	679, 333, 387	39,492,536	: 4th Qtr	1,255,749	1,401,688	277,545	655,8
OTAL	2,113,117,870	10,553,655	2,123,671,525	190,091,751	TOTAL	24,649,213	25,697,960	10,339,511	12,675,7
1979/80 Sep'r Oct	: : 185,070,433 : 214,345,983 : 221,857,150	1,176,418 1,180,577 1,150,649	186,246,851 215,526,560 223,007,799	24,223,910 21,583,642 26,229,212	1979/80 June July Aug Sept	2,212,317 2,446,725 2,719,552 2,221,823	2,282,851 2,527,595 2,811,124 2,276,736	120,868 42,528 105,109 144,474	247,6 140,9 254,8 211,5
st Qtr	621,273,566	3,507,644	624,781,210	72,036,764	: Ist Qtr.	9,600,417	9,898,306	412,979	854,9
Dec Jan Feb	: 223,411,029 : 189,912,018 : 184,412,948	945,756 1,017,787 1,103,682	224,356,785 190,929,805 185,516,630	26,386,501 37,438,737 39,082,513	: Oct : : Nov :	9,284,368 8,143,400 4,218,627	9,514,648 8,336,890 4,500,253	95,188 870,027 645,337	164,6 984,3 726,2
2nd Qtr	: 597,735,995	3,067,225	600,803,220	102,907,751	: 2nd Qtr	21,646,395	22,351,791	1,610,552	1,875,3
Mar Apr May	: 204,333,868 : 213,500,454 : 169,938,362	1,211,774 1,021,506 1,165,650	205,545,642 214,521,960 171,104,012	32,000,475 35,394,225 24,939,765	: Jan : Feb : Mar	3,042,486 3,641,315 3,843,733	3,173,696 3,911,450 4,052,579	98,074 18,760 60,276	275,8 97,5 89,7
3rd Qtr	587,772,684	3,398,930	591,171,614	92,334,465	: 3rd Qtr	10,527,534	11,137,725	177,110	463,1
June July Aug	: 191,853,582 : 196,938,173 : 205,942,297	1,305,390 1,418,319 1,112,430	193,158,972 198,356,492 207,054,727	24,957,177 22,312,730 15,122,775	: Apr : May	6,525,141 4,520,778	6,692,569 4,747,733	229,439 327,568	418,5
Ith Qtr	594,734,052	3,836,139	598,570,191	62,392,682	4th Qtr	11,045,919	11,440,302	557,007	849,
OTAL	: 2,401,516,297	13,809,938	2,415,326,235	329,671,662	TOTAL	52,820,265	54,828,124	2,757,648	4,042,8
1980/81 Sept Oct Nov	: 202,462,112 : 240,698,485 : 244,706,069	1,065,907 1,581,013 1,165,206	203,528,019 242,279,498 245,871,275	19,533,279 22,543,461 25,367,196	: 1980/81 : June : July : Aug : Sept	5,022,971 3,628,339 9,211,534 6,658,108	5,097,866 3,702,871 9,349,242 6,740,218	580,924 327,415 638,725 793,059	1,006,88 785,58 1,101,43 953,12
st Qtr	: 687,866,666	3,812,126	691,678,792	67,443,936	: Ist Qtr	24,520,952	24,890,197	2,340,123	3,847,03
Jan Feb	: 238,328,292 : 207,962,746 : 199,682,732	1,335,338 1,147,496 971,791	239,663,630 209,110,242 200,654,523	18,308,338 28,807,953 28,934,912	: Oct : Nov : Dec	5,504,702 6,666,060 8,916,215	5,554,355 6,808,903 9,085,383	1,306,243 46,960 785,897	1,597,56 363,07 861,43
2nd Qtr	645,973,770	3,454,625	649,428,395	76,051,203	: 2nd Qtr	21,086,977	21,448,641	2,139,100	2,822,0
Mar Apr May	: 221,866,761 : 184,884,549 : 207,201,786	1,243,104 1,749,260 1,892,894	223,109,865 186,633,809 209,094,680	26,318,245 19,487,235 22,218,323	: Jan : Feb : Mar	6,315,403 : 11,466,729 : 4,666,953	6,388,116 11,500,117 4,776,513	189,156 1,087,421 230,384	573,9 1,400,0 633,8
3rd Qtr	613,953,096	4,885,258	618,838,354	68,023,803	: 3rd Qtr	22,449,085	22,664,746	1,506,961	2,607,8
June July Aug	: 157,486,785 : 146,636,959 : 139,188,454	1,956,787 1,437,410 1,326,449	159,443,572 148,074,369 140,514,903	19,998,909 29,469,237 32,171,898	: Apr : May	3,516,330 4,087,044	3,542,993 4,173,387	1,560,078	2,260,2
4th Qtr	443,312,198	4,720,646	448,032,844	81,640,044	: 4th Qtr	7,603,374	7,716,380	2,853,329	3,991,2
TOTAL	2,391,105,730	16,872,655	2,407,978,385	293,158,986	TOTAL	75,660,388	76,719,964	0,839,513	13,268,1

Table 12.--Corn, sorghum, barley, and oats exports, 1975/76 to cate--continued

Year		CCIRN		SORGHUM	Year :	BARLE	.X	OAT	S
month	Grain only	Total process	Grand total	ERAIN	month :	Grain	Total	Grain	Total
	•	В	shels		1 1		Bu	shels	
981/82 Sapt Oct Nov	: : 149,655,085 : 194,694,429 : 174,729,965	1,089,867 1,033,605 1,521,537	150,744,952 195,728,034 176,251,502	30,963,092 28,388,473 18,657,408	: 1981/82 : : June : : July : : Aug : : Sept :	1,457,555 6,528,945 12,243,107 11,902,257	1,508,625 6,661,102 12,365,441 12,026,473	372,009 366,463 648,960 436,435	549,20 1,092,74 782,71 793,96
st Qtr	519,079,479	3,645,009	522,724,488	78,008,973	: Ist Qtr :	32,131,864	32,561,641	1,823,867	3,218,62
Dec Jan Feb	: 172,337,796 : 150,895,856 : 146,989,364	1,214,177 731,745 759,913	173,551,973 151,627,601 147,749,277	30,772,465 29,552,315 19,453,452	: Oct : : Nov :	16,462,060 8,631,927 7,636,656	16,507,711 8,722,744 7,746,899	202,460 59,430 72,350	505,97 402,68 266,23
nd Qtr	: 470,223,016	2,705,835	472,928,851	79,778,232	: 2nd Qtr :	32,730,643	32,977,354	334,240	1,174,89
Mar Apr May	: 189,001,536 : 194,887,043 : 211,950,747	1,064,830 868,330 1,247,897	190,066,366 195,755,373 213,198,644	25,286,333 13,509,047 8,259,377	Jan : Feb : Mar :	8,332,073 8,088,777 5,887,140	8,455,568 8,207,953 6,474,477	114,472 122,192 99,231	443,73 265,40 450,89
rd Qtr	: 595,839,326	3,181,057	599,020,383	47,054,757	: 3rd Qtr :	22,307,990	23,137,998	335,895	1,160,0
June July Aug	: 179,668,292 : 119,477,568 : 112,474,351	774,943 1,038,849 1,478,937	180,443,235 120,516,417 113,953,288	11,386,253 20,242,006 23,142,497	: Apr : May :	3,808,701 7,403,111	3,863,179 7,517,119	38,448 154,417	553,34 446,43
th Qtr .	: 411,620,211	3,292,729	414,912,940	54,770,756	: 4th Qtr	11,211,812	11,380,298	192,865	999,7
OTAL	: 1,996,762,032	12,824,630	2,009,586,662	259,612,718	TOTAL	98,382,309	100,057,291	2,686,867	6,553,3
982/83 Sept Oct Nov	: : 107,215,457 : 166,335,228 : 169,586,560	843,567 882,718 1,300,624	108,059,024 167,217,946 170,887,184	20,428,581 18,383,056 19,234,195	: 1982/83 : June : July : Aug : Sept	5,928,163 4,165,507 8,196,824 5,561,112	6,296,843 4,862,814 8,579,926 5,678,174	52,361 70,751 48,700 197,917	603,69 240,20 197,18 289,60
st Qtr	: 443,137,245	3,026,909	446, 164, 154	58,045,832	: 1st Qtr	23,851,606	25,417,757	369,729	1,330,68
Dec Jan Feb	: 173,558,165 : 174,707,042 : 161,304,672	1,014,843 733,757 706,273	174,573,008 175,440,799 162,010,945	29,354,316 25,050,652 17,975,892	Oct Nov	1,440,901 2,494,002 1,833,788	1,516,155 2,987,818 1,940,049	71,782 158,162 29,127	581,39 197,10 210,45
nd Qtr	: 509,569,879	2,454,873	512,024,752	72,380,860	: 2nd Qtr	5,768,691	6,444,022	259,071	988,94
Mar Apr May	: 169,409,637 : 157,314,623 : 148,587,837	1,010,853 1,258,502 1,370,305	170,420,490 158,573,125 149,958,142	19,694,606 5,348,135 8,726,291	Jan Feb	7,454,630 1,410,838 3,523,829	7,580,831 1,492,942 3,669,317	41,047 32,518 26,152	75,44 123,89 80,13
rd Qtr	475,312,097	3,639,660	478,951,757	33,769,032	: 3rd Qtr	12,389,297	12,743,090	99,717	279,4
June July Aug	: 150,589,182 : 123,534,997 : 119,201,764	1,232,887 1,034,822 991,337	151,822,069 124,569,819 120,193,101	9,889,322 16,494,246 19,474,765	: Apr : May	29,375	223,988 2,395,182	16,040 5,867	207,4
th Qtr	393,325,943	3,259,046	396,584,989	45,858,333	: 4th Qtr	2,160,341	2,619,170	21,907	414,3
OTAL	1,821,345,164	12,380,488	1,833,725,652	210,054,057	: TOTAL	44,169,935	47,224,039	750,424	3,013,4
983/84 Sept Oct Nov	: : 142,605,075 : 154,746,149 : 196,023,261	1,677,443 841,962 1,151,966	144,282,518 155,588,111 197,175,227	24,843,392 22,517,772 20,090,581	: 1983/84 : June : July : Aug : Sept	1,749,278 1,219,801 5,858,487 14,055,167	1,962,746 1,332,753 5,950,159 14,152,120	20,066 85,615 16,399 66,102	170,3 276,12 190,3 120,5
st Qtr	493,374,485	3,671,371	497,045,856	67,451,745	: Ist Qtr	: 22,882,733	23,397,778	188,182	757,3
Dec Jan Feb	: 175,217,363 : 172,472,646 : 158,202,220	921,914	176,176,687 173,394,560 158,971,946	19,536,615 27,006,928 25,013,805	: Oct : Nov : Dec	8,017,640 9,025,053 15,402,481	8,100,296 9,128,165 15,638,039	348, 182 84, 892 42, 383	489,4 128,5 128,7
and Qtr	505,892,229	2,650,964	508,543,193	71,557,348	: 2nd Qtr	32,445,174	32,866,500	475,457	746,7
Mar Apr May	176, .08,558 174,344,582 162,845,594	997,912	177,553,953 175,342,494 164,383,668	25,761,817 14,599,452 14,890,486	: Jan : Feb : Mar	7,544,651 5,797,474 10,841,262	7,820,115 6,047,572 11,217,537	27,417 15,377 39,239	88,6 47,2 198,2
ird Qtr	513,398,734	3,881,381	517,280,115	55,251,755	: 3rd Qtr	24,183,387	25,085,224	82,033	334,1
June July Aug	: 110,199,008 : 128,242,982 : 135,289,472	1,825,250	112,251,470 130,068,232 136,339,843	10,354,830 21,979,636 17,884,104	: Apr : May	5,570,656 3,735,785	5,968,499 4,106,217	171,313 24,589	220,8
ith Qtr	373,731,462	4,928,083	378,659,545	50,218,570	: 4th Qtr	9,306,441	10,074,716	195,902	334,4
TOTAL	: 1,886,396,910	15,131,799	1,901,528,709	244,479,418	TOTAL	: 88,817,735	91,424,218	941,574	2,172,7

Table 12-Corn, sorghum, barley, and oats exports, 1985/86 to date-continued

Year :		CORN		CODCHIN	: Year	:	BARLE	Y	OATS	
month :	Grain	Total process	Grand total	SORGHUM GRAIN	: and : month	: Grai : only		Total	Grain only	Total
:		Ви	shels			:		Bu	shels	
1984/85 : Sept. :	107,064,816	951,331	108,016,147	26,778,001	: 1984/85 : June	. 4.6	68,354	4,884,210	16,340	204,7
Oct. :	154,055,992	1,177,835	155,233,827	36,290,021	: July	: 1.5	06,275	2,146,787	51,644	162,6
Nov. :	242, 124, 317	842,579	242,966,896	22,711,771	: Aug.	: 4,9	65,763	5,155,469	28,335	37,0
1					: Sept.	: 17,1	85,453	17,474,876	58,861	188,7
Ist Qtr. :	503,245,125	2,971,745	506,216,870	85,779,793	: Ist Qtr	: 28,3	25,845	29,661,342	155,180	593,
Dec. :	206,686,724	99,686	207,683,410	25,549,874	: Oct.		50,660	8,959,255	78,898	132,1
Jan. :	208,081,216	765,323	208,846,539	29,096,442	: Nov.	: 9,2	26,887	9,937,205	25m988	67m
Feb. :	165,648,304	1,697,044	167,345,348	32,640,358	: Dec.	: 10,7	739,791	11,773,706	45,452	66,
2cnd Qtr. :	580,416,244	3,459,053	583,,875,297	87,286,614	:2nd Qtr.	: 28,7	717,338	30,670,166	150,338	265,9
Mar. :	170,693,089	1,208,460	171,901,549	26,133,824	: Jan.	: 6,0	23,494	7,154,739	27,349	56,
Apr. :	167,741,483	1m303m826	169,045,309	19,774,404	: Feb.	: 4,1	249,537	4,712,199	44,293	107,
May :	136,292,380	1,659,421	137,951,801	17,817,664	: Mar.	: 1,	173,727	1,258,040	68,000	75,
3rd Qtr. :	474,726,952	4,171,707	478,898,659	63,725,892	: 3rd Qtr.	: 11,	146,758	13,124,978	139,642	239,
June :	105,494,909	2,315,648	107,810,557	25,247,583	:					
July :	95,527,431	1,230,827	96,758,258	18,747,724	: Apr.		227,362	367,280	35,822	120,
Aug.	90,839,919	986,860	91,826,779	16,117,507	: May	: 2,	937,606	3,013,712	13,925	48,
4th Qtr.	291,862,259	4,533,335	296,395,594	60,112,814	: 4th Qtr.	: 3,	164,986	3,380,992	49,747	169,
Total :	1,850,250,580	15,135,840	1,865,386,420	296,905,113	: Total	: 71,	654,090	76,837,478	494,907	1,267,
					: 1985/86	:				
1985/86					: June		487,412	1,649,817	44,678	87,
Sept :	79,897,274	833,679	80,730,953	29,172,725	: July		731,241	3,860,606	23,529	69,
Oct :	124,900,086	917,870	125,817,956	23,654,139	: Aug		179,203	5,303,587	33,906	163,
Nav	210,005,197	1,173,603	211,178,800	17,378,277	: Sept		831,326	937,470	52,866	89,
1st Qtr	414,802,557	2,925,152	417,727,709	70,205,141	: 1st Qtr	: 11,	229, 182	11,751,480	154,979	410,
Desc	175,971,674	2,540,388	178,512,062	11,858,105	: Oct	: 2,	652,026	2,799,218	120,219	153,
Jan :	164,709,634	1.351.663	166,061,297	17,264,657	: Nov	: 3,	768,477	3,869,960 237,932	111,195	350,
Feb	119,524,523	1,157,729	120,682,252	13,994,213	: Dec	:	112,702	237,932	23,556	37,
2nd Qtr	460,205,831	5,049,780	465,255,611	43,116,975	: 2nd Qtr	: 6,	533,205	6,907,110	254,970	541,
Mar	97,479,313	922,855	98,402,168	6,723,066	: Jan	: 1,	119,603	1,546,100	8,934	69,
Apr	57,426,414	786,654	58,213,068	8,597,402	: Feb	:	49,160	116,456	43,584	96,
May	46,520,450	1,254,677	47,775,127	11,610,994	: Mar	:	1,148	192,476	250, 397	288,
3rd Qtr	201,426,177	2,964,186	204,390,363	26,931,462	3rd Qtr	: 1,	169,911	1,855,032	302,915	454,
June	55,802,755	1,016,137	56,818,892	10,467,071	: Apr	:	720,309	816,587	49,085	93,
July	: 44,609,875	871,083	45,480,958	17,830,311	: Nay	:	57,584	472,599	473,733	693
Aug	: 50,484,684	1,068,258	51,552,942	9,436,885	:	:				401
4th Otr	105,897,314	2,955,478	153,852,792	37,734,267	: 4th Qtr	:	777,893	1,289,186	522,818	786,
	:	2,777,470	133,032,132	21,137,201	Total	: 19.	710,191	21,802,808	1,235,682	2,192
TOTAL	:1,227,331,879	13,894,596	1,241,226,475	177,987,845	1	:		2.,555,500	,,,,,,,,,,	~, . > ~ ;

Table 12--Corn, sorghum, barley, and oats exports, 1985/86 to date--continued

Year	*	CORN		000011111	: Year		BARLE	Y	CATS	3
and month	: Grain : only	Total process	Grand total	SORGHUM	: and : month	:	Grain only	Total	Grain	Total
	*	Ви	shels		:	1		8u	shels	
1986/87	:				: 1986/87 : June	:	2,000	276,815	79,108	128,492
Sept	80,082,655	1,181,307	81,263,962	14,227,263	: July		1,164,620	1,597,139	81,504	217,421
Oct	: 124,025,138	818,619	124,843,757	18,547,828	: Aug		12,319,164	12,514,711	73,364	335,437
Nov										
	: 114,104,314	848,497	114,952,811	14,680,456	: Sept		12,772,707	12,912,177	121,288	327,625
Ist Qtr	: 318,212,107	2,848,423	321,060,530	47,455,547	: Ist Qtr		26,258,491	27,300,842	355,264	1,008,975
Dec	: 109,759,488	925,574	110,685,062	19,954,747	: Oct		16,480,986	16,559,353	167,403	411,976
Jan	: 104,283,400	990,714	105, 274, 114	15,484,239	: Nov	:	14,292,746	14,363,851	32,293	167,870
Feb	: 98,787,906	657,881	99,445,787	20,749,712	: Dec	1	14,532,134	14,661,828	17,314	315,049
2nd Qtr	: 312,830,794	2,574,169	315,404,963	56,188,698	: 2nd Qtr	:	45,305,866	45,585,032	217,010	894,895
	1				:					
Mar	: 143,717,211	1,658,289	145,375,500	24,415,530	: Jan	1	1,205,709	1,262,335	30,960	75,145
Apr	: 183,288,269	992,304	184,280,573	12,956,519	: Feb	:	16,084,544	16,522,282	30,776	178,452
May	: 169,091,351	1,485,054	170,576,405	13,788,332	: Mer	:	17,639,725	18,150,611	115,234	277,846
3rd Qtr	496,096,831	4,135,647	500,232,478	51,160,381	3rd Qtr	:	34,929,978	35,935,228	176,970	531,443
June	: 120,026,244	791,997	120,818,241	12,940,287	:	:				
July	: 133,984,531	916, 175	134,900,706	22,883,734	: Apr	2	16,599,968	17,153,570	105,251	191,418
Aug	: 111,320,100	688,763	112,008,863	7,698,710	: May	:	10,522,937	10,726,481	67,436	168,607
4th Qtr	: 365,330,875	2,396,935	367,727,810	43,522,731	: 4th Qtr	:	27,122,905	27,880,051	172,687	360,025
Till Wil	: 207,720,077	2,370,733	201,121,010	42,266,731	: All VII		27,122,505	27,000,001	1/2,00/	300,02
TOTAL: 1987/88	1,492,470,607	11,955,174	1,504,425,781	198,327,357	: TOTAL : 1978/88	:	133,617,240	136,701,153	921,931	2,795,33
	:				: June		517,681	754,738	104,217	187,88
Sept.	: 135,403,937	727,001	136,130,948	17,832,854	: July		7,421,463	7,675,576	50,113	92,43
Oct.	: 137,693,604	1,091,494	138,785,098	16,734,001	: Aug	2	8,813,825	9,257,652	18,135	153,17
Nov.	: 122,468,369	617,937	123,086,306	10,296,951	: Sept		10,014,514	10,217,330	24,184	62,34
Ist Qtr.	: 395,565,910	2,436,432	398,002,352	44,863,806	: Ist Qtr		26,847,483	27,905,299	196,649	495,83
Dec	149 199 943	1 006 302	140 206 505	21 462 657	i Ont	2	16 474 177	17 000 405	60 200	144 70
Dec.	: 148,189,862	1,096,723	149,286,585	21,462,657	: Oct.	\$	16,474,137	17,009,495	62,220	144,78
					: Nov.		17,914,754	18,114,982	38,617	99,13
	:				: Dec.	:	15,583,102	16,123,445	5,680	36,70
					:2nd Qtr.	. 2	49,971,993	51,247,922	106,517	280,62

Total corn exports include grain only (white, yellow, seed, relief), dry process (cornmeal for relief, as grain, grits), and wat process (corn starch, sugar dextrose, glucose, high fructose). Sorghum includes seed and unmilled. Barley includes grain only (grain for malting purposes, other) and barley mait. Oats include grain and oatmeal (bulk and packaged).

Source: Bureau of the Census, U.S. Department of Commerce.

Table 13.—Corn, sorghum, barley, and oats imports, 1975/76 to date

	COFF	N	000011111	Year	BARLI	EY	OATS	
Year and month	Grain only	Total	SORGHUM Total	: and : month :	Grain only	Total	Grain only	Total
		Bushels		:	*	Bush	ols	
1975/76 Sept Oct Nov	48,468 : 172,388 : 19,550	49,894 204,758 69,861	1,177	: 1975/76 : June : July : Aug : Sept	759,873 898,065 2,358,988 1,436,833	1,016,094 1,262,809 2,707,006 1,804,423	95,341 87,448 64,522 6,357	104,362 95,062 66,586 9,66
lst Qtr	240,406	324,513	1,177	: 1st Qtr	5,453,759	6,790,332	253,668	275,67
Doc Jan Feb	267,752 : 184,083 : 144,936	303,437 221,905 176,862	0	: Oct : Nov : Dec	783,803 781,713 2,025,728	1,093,718 1,169,351 2,352,469	8,574 19,070 27,389	30,04° 21,48 42,32°
2nd Qtr	596,771	702,204	ō	: 2nd Qtr	3,591,244	4,615,538	55,033	93,85
Mar Apr May	: 134,347 : 48,183 : 22,372	145,986 55,922 27,433	0	Jan Feb	835,254 784,581 590,585	1,087,702 969,243 690,283	107,560 35,929 21,257	132,65 47,30 23,33
3rd Qtr	204,902	229,341	0	: 3rd Qtr	2,210,420	2,747,228	164,746	203,30
June July Aug	: 304,818 : 78,435 : 72,218	315,434 87,714 76,070	70 48 0	: Apr : May	587,540 858,273	659,960 964,963	27,889 11,753	48,70 14,92
4th Qtr	455,471	479,218	118	: 4th Qtr	1,445,813	1,624,923	39,642	63,63
TOTAL	: 1,497,550	1,735,276	1,295	TOTAL	12,701,236	15,778,021	513,089	636,45
1976/77 Sept Oct Nov	: : 136,434 : 83,151 : 266,733	138,356 94,029 314,577	0 0	: 1976/77 : June : July : Aug : Sept	2,009,994 637,977 1,245,395 798,349	2,236,414 857,761 1,467,011 1,046,108	15,553 64,577 4,525 21,936	34,49 67,19 12,42 29,93
Ist Qtr	486,318	546,962	0	i ist Qtr	4,691,715	5,607,294	106,591	144,0
Dan Jan Feb	: 177,310 : 70,481 : 145,926	190,508 96,489 157,106	0	Oct Nov Dec	: 4,818 : 196,948 : 404,334	141,142 318,012 538,177	14,876 14,817 78,462	32,86 20,3 89,89
2nd Qtr	393,717	444,103	0	: 2nd Qtr	606,100	997,331	108,155	143,0
Mar Apr May	: 7,498 : 87,050 : 438,329	27,487 99,854 443,685	0 188 95	Jan Fab	: 946,916 : 493,961 : 738,623	1,102,450 624,453 902,746	120,235 197,133 284,257	132,79 206,39 300,78
3rd Qtr	532,877	571,026	283	3rd Qtr	2,179,500	2,629,649	601,625	639,9
June July Aug	: 312,460 : 185,817 : 519,655	313,099 186,291 520,236	0	: Apr : May	632,074 498,445	833,943 802,958	218,521 330,055	232,3 336,9
4th Qtr	1,017,932	1,019,626	0	4th Qtr	1,130,519	1,636,901	548,576	569,3
TOTAL	2,430,844	2,581,717	283	TOTAL	8,607,834	10,871,175	1,364,947	1,496,4
1977/78 Sept Oct Nov	: : 97,920 : 482,174 : 60,677	100,788 505,782 97,097	0 0	: 1977/78 : June : July : Aug : Sept	: 2,368,640 : 412,910 : 569,880 : 243,812	2,764,183 853,478 1,019,874 473,873	740,077 129,463 65,239 122,581	750,8 151,2 78,5 137,3
1st Qtr	: 640,771	703,667	0	1st Qtr	3,595,242	5,111,408	1,057,360	1,117,9
Dec Jan Feb	75,411 : 158,735 : 421,573	96,626 183,155 436,495	0	: Oct : Nov : Dec	28,317 482,820 839,755	239,542 650,891 938,042	99,251 168,296 175,350	111,6 175,8 187,5
2nd Qtr	: 655,719	716,276	ō -	2nd Qtr	1,350,892	1,828,475	442,897	474,9
Mar Apr May	236,524 156,639 133,843	283,308 168,200 145,851	196 24	: Jan : Feb : Mar	712,903 250,900 241,366	913,625 431,801 457,093	108,038 143,408 118,171	116,3 161,2 129,6
3rd Qtr	527,006	597,359	220	3rd Qtr	1,205,169	1,802,519	369,617	407,1
June July Aug	: 83,059 : 188,531 : 302,798	90,792 194,522 304,310	10,231	: Apr : May	69,881 221,767	225,945 505,948	121,018 95,055	135,0
4th Qtr	574,388	589,624	21,332	: 4th Qtr	291,648	731,893	216,073	245,7
TOTAL	2,397,884	2,606,926	21,552	TOTAL	6,442,951	9,474,295	2,085,947	2,245,8

Table 13.--Corn, sorghum, barley, and oats imports, 1975/76 to date--continued

	CCRI	N		Year	BARI.	EY	OATS	5
Year and month	Grain	Total	SORGHUM	: and : month :	Grain only	Total	Grain only	Total
		Bushels		:		Sush	als	
978/79				: 1978/79 : June	276,896	532,672	127,847	137,213
Sept	80,998	82,019	0	: July	986,064	1,418,338	37,885	47,913
Oct Nov	: 11,397 : 42,821	21,149 54,334	0	: Aug : Sept	234,024	548,660 255,486	23,378 32,927	32,299 44,496
st Qtr	135,216	157,502	0	: Ist Qtr	1,537,027	2,755,156	222,037	261,921
	:			:	:			
Dec Jan	: 59,339 : 243,704	72,321 260,550	0	: Oct : Nov	: 110,994 : 825,557	429,614	25,408	32,598 34,041
Feb	1,039	50,782	ō	: Dec	971,916	1,281,034	39,165	51,008
Ind Qtr	304,082	383,653	0	: 2nd Qtr	: 1,908,467	2,760,380	89,724	117,647
Mar	103,947	116,395	D	: Jan	797,988	1,134,539	60,200	71,444
Apr	: 69,498	76,740	0	: Feb	: 384,319	650,039	57,616	67,459
May	: 122,910	130,212	1,890	: Mar	899,926	1,274,511	80,120	87,131
ird Qtr	296,355	323,347	1,890	: 3rd Qtr	2,082,233	3,059,089	197,936	226,034
June	47,909	49,367	0	:	:			
July Aug	: 278,155 : 90,816	280,696 94,387	0	: Apr : May	: 447,587 : 737,200	845,535	67,809	74,249
	:			1	:		47,728	67,072
Ith Qtr	: 416,880	424,450	0	: 4th Qtr	: 1,184,787	1,962,853	115,537	141,321
OTAL	: 1,152,533	1,288,952	1,890	TOTAL	6,712,514	10,537,478	625,234	746,923
	:			1979/80				
1979/80 Sept	67,261	70 547	17	: June : July	: 508,172	956,165	66,902 32,700	75,963
0ct	: 60,135	70,547 91,870	33	: Aug	: 1,053,302 : 184,716	1,401,581 853,786	103,339	53,91
Nov	87,671	96,674	D	Sept	: 146,405	480,704	81,605	103,334
lst Qtr	: 215,067	259,091	50	i lst Qtr	: 1,892,595	3,692,236	284,546	345,65
Desc	44,485	67,828	0	: Oct	481,803	755,918	45,908	61,83
Jan Feb	: 49,000 : 72,887	64,908 93,576	0	: Nov : Dec	: 511,546 : 1,046,665	736,945	54,732 50,978	57,80 64,85
	:		0	:	1			
2nd Qtr	: 166,372	226,312		: 2nd Qtr	: 2,040,014	2,815,685	151,618	184,48
Mar	: 121,254 : 4,185	129,375	1,802	: Jan : Feb	: 702,837 : 245,660	977,405 680,313	48,718 46,740	56,24 58,82
May	74,202	84,856	0	: Mar	958,739	1,536,331	68,318	91,74
3rd Qtr	: 199,641	229,936	1,802	: 3rd Qtr	: 1,907,236	3,194,049	163,776	206,80
	1			:	:			
July	: 11,404	16,394 26,082	394	: Apr	: 174,456	658,919	68,142	88,96
Aug	: 108,026	112,586	0	: Nay	: 1,151,699	1,476,137	108,118	122,95
4th Qtr	139,651	155,062	394	: 4th Qtr	: 1,326,155	2,135,056	176,260	211,92
TOTAL	720,731	870,401	2,246	: TOTAL	: 7,166,000	11,837,026	776,200	948,87
			•	: 1980/81	1			
1980/81	:			: June	: 620,387	1,007,100	208,364	217,35
Sept Oct	: 174,580 : 62,932	251,525	17	: July : Aug	: 475,033 : 198,458	897,820 613,721	99,739	117,56
Nov	: 54,852	119,771	7,143	: Sept	: 576,818	994,834	103,180	114,35
Ist Qtr	: 292,414	462,323	7,160	: 1st Qtr	: 1,870,696	3,513,475	549,324	599,38
Dec	: 815	14,058	0	: Oct	: 418,748	716,432	78,330	92,72
Jan	: 981	41,791	0	: Nov	: 272,608	649,066	37,899	44,45
Feb	: 1,471	117,558	1,429	: Dec	: 616,398	971,698	68,867	73,71
2nd Qtr	3,267	173,407	1,429	: 2nd Qtr	: 1,307,754	2,337,196	185,096	210,88
Mar	: 43,305	114,750	1,125	: Jan	: 405,615	753,860	48,185	83,72
Apr	1,810	41,432	16	: Feb : Mar	: 502,852 : 687,319	786,383 1,176,303	72,464 67,501	90,18 75,69
	:	56,863		:	:			
3rd Qtr	45,618	213,045	1,141	: 3rd Qtr	: 1,595,786	2,716,546	188,150	249,59
June	: 407,509 : 48,187	418,284 60,912	39	: Apr	: 388,038	662,947	100,117	105,70
July Aug	: 51,275	57,174	16	: May	: 702,898	975,666	109,205	128,92
4th Qtr	: 506,971	536,370	55	: 4th Qtr	: 1,090,936	1,638,613	209,322	234,63
TOTAL	:			:	:			1,294,50
13/1/32	: 848,270	1,385,145	9,785	: TOTAL	: 5,865,172	10,205,830	1,131,892	1,679,70

Table 13. -Corn, sorghum, barley, and oats imports, 1975/76 to date--continued

Year	COR	RN	SORGHUM	Year and	BARLE	EY	OAT	S
Year : and : month :	Grain	Total	SORGHUM Total	: and : month :	: Grain : only	Total	Grain	Total
ž.		Bushels		100		Bush	els	
981/82 : Sept : Oct : hov :	47,232 54,527 8,426	50,064 - 85,484 71,390	0 0	: 1981/82 : June : July : Aug : Sept	: 610,314 : 338,217 : 160,069 : 318,906	807,773 528,962 369,781 648,411	100,775 65,137 53,075 76,882	86,09 60,14 83,97
ist Qtr	110,185	206,938	0	Ist Qtr	1,427,506	2,354,927	295,869	347,4
Dec : Jan : Feb :	158,826 321 118	231,084 32,702 105,527	167 0 15	: Oct : Nov : Dec	: 181,471 : 647,471 : 892,812	437,924 896,666 1,086,699	60,349 70,277 60,553	69,4 81,7 70,1
2nd Qtr :	159,265	369,313	182	2nd Qtr	1,721,754	2,421,289	191,179	221,4
Mar : Apr : May :	1,063 4,900 34,328	116,202 20,978 54,210	199 0 106	: Jan : Feb : Mar	780,039 844,258 487,592	989,703 1,052,933 690,770	30,724 31,463 41,105	43,1 40,9 67,4
3rd Qtr	40,291	191,390	305	: 3rd Qtr	2,111,889	2,733,406	103,292	151,5
June : July : Aug :	217,319 29,526 89	249,153 45,153 6,720	6,389 0 9,873	: Apr : May	983,354 631,815	1,276,341	336,288 557,422	344,20 572,5
4th Qtr	246,934	301,026	16,262	4th Qtr	1,615,169	2,100,781	893,710	916,7
TOTAL :	556,675	1,068,667	16,749	TOTAL	6,876,318	9,610,403	1,484,050	1,637,1
1982/83 : Sept : Oct : Nov :	57,841 36,755 153,521	83,885 63,827 184,648	5,440 38,834 3,969	: 1982/83 : June : July : Aug : Sept	: : 1,706,202 : 1,602,675 : 578,914 : 271,038	1,890,855 1,808,382 869,862 520,052	173,860 311,531 157,066 42,950	192,6 322,3 186,5 67,9
Ist Qtr	248,117	332,360	48,243	: Ist Qtr	4,158,829	5,089,151	685,407	769,4
Dec : Jan : Feb :	52,888 5,346 383	81,987 25,718 20,320	2,673 0	: Oct : Nov : Dec	: 118,788 : 901,290 : 210,376	375,818 1,166,105 359,493	41,249 69,839 80,919	48,6 82,9 101,5
2nd Qtr	58,617	128,025	2,673	2nd Qtr	1,230,454	1,901,416	192,007	233,1
Har : Apr May :	52,592 4,472 29,196	116,099 34,644 49,197	24 0 0	: Jan : Feb : Mar	: 411,890 : 573,023 : 695,950	602,902 702,910 855,026	327,193 346,452 688,400	343,0 361,4 846,9
3rd Qtr :	86,260	199,940	24	: 3rd Qtr	1,680,863	2,160,838	1,362,045	1,551,4
June : July : Aug :	72,972 1,489 21,394	79,436 8,400 29,572	29 0 0	: Apr : May	: 748,297 : 532,160	869,229 644,747	441,625 830,870	461,3 849,3
4th Qtr	95,855	117,408	29	4th Qtr	: 1,280,457	1,513,976	1,272,495	1,310,6
TOTAL	488,849	777,733	50,969	TOTAL	8,350,603	10,665,381	3,511,954	3,864,6
1983/84 Sept Oct Dec	187,378 : 187,378 : 74,362 : 135,991	224,236 103,908 181,386	55 0 0	1983/84 June Luly Aug Sept	984,175 697,624 613,639 406,495	1,076,280 811,948 872,632 681,755	1,352,013 4,040,293 3,759,037 2,494,421	1,374,9 4,067,4 3,776,3 2,511,8
Ist Qtr	397,731	509,530	55	i Ist Qtr	2,701,933	3,442,615	11,645,764	11,730,5
Dec Jan Feb	10,484 301,147 238	58,924 361,028 164,021	0	Oct Nov Dec	152,380 30,350 636,688	432,289 257,914 805,125	2,066,649 1,517,183 1,224,336	2,107,4 1,551,4 1,262,9
2nd Qtr	311,869	583,973	0	2nd Qtr	819,418	1,495,328	4,808,168	4,921,8
Mar Apr May	55,570 4_1,092 9,899	310,958 460,456 205,026	0	: Jan : Feb : Mar	305,982 105,250 292,509	470,695 246,267 445,810	1,379,602 3,637,066 5,560,632	1,388,2 3,665,6 5,580,0
3rd. Qtr.	486,561	976,440	0	: 3rd Qtr	703,741	1,162,772	10,577,300	10,633,9
June July Aug	: 134,071 : 368,517 : 8,062	176,922 372,316 15,913	141,963	: Apr : May	: : 418,999 : 401,076	581,084 404,011	1,940,376 943,825	1,958,5
4th Qtr	510,650	565,151	141,972	4th Qtr	820,075	985,095	2,884,201	2,919,8
	1,706,811	2,635,094	142,027	TOTAL	5,045,167	7,085,810	29,915,433	30,206,1
TOTAL	1,706,811	2,635,094	142,027	: IOTAL	: 5,045,167	7,085,810	29,915,433	Con

Table 13.--Corn, sorghum, barley, and dats imports, 1985/86 to date--continued

V	COR	ON .	SORGHUM	: Year	6ARL	EY	OAT	S
Year and month	Grain only	Total	Total	: and : month	Grain only	Tural	Grain	Total
	:	Bushels				Bush	nels	
984/85	:			: 1984/85				
Sept	: 116,290	127,399	0	: June :	920,819	1,054,291	305,312	322,345
0ct	: 260,438	317,134	0	: July	722,362	883,625	1,469,282	1,490,031
Nov .	: 345,944	440,702	0	: Aug	: 1,023,658	1,165,980	217,465	234,276
	:			: Sept	284,510	466,491	3,771,243	3,786,897
st Qtr	722,672	885,235	O	lst Qtr	2,951,349	3,570,387	5,763,332	5,833,549
Dec	: 41,045	134,862	120,673	: Oct	276,438	505,461	3,449,893	3,462,452
Jan	: 41,925	147,551	0	: Nov	300,744	591,477	1,485,364	1,494,579
Feb	: 0	81,696	Ö	: Dec	: 1,640,951	1,899,683	4,119,279	4,138,00
	1		100 100	1	:			
nd Qtr	82,970	364,109	120,673	:2nd Qtr	: 2,218,133	2,996,621	9,054,536	9,095,031
Mar	: 15,777	93,686	0	: Jan	358,752	618,802	4,035,973	4,095,972
Apr	9,264	38,751	0	; Feb	: 356,654	688,930	4,017,603	4,092,73
May	: 824,177	936,859	0	: Mar	: 537,365	905,566	3,857,568	3,900,42
ird Qtr	: 849,218	1,069,296	0	: :3rd Qtr	: 1,252,771	2,213,298	11,911,144	12,089,120
June	: 60.875	944,203	0		1			
	: 1,428	39,177	0	Ann	030 777	1 166 750	E 170 727	5 257 10
July	: 15,836		D D	: Apr	939,773	1,166,350	5,170,327	5,257,19
Aug	: 17,000	135,868	U	: May	: 60,460	160,312	1,728,469	7,008,34
th Qtr	78,139	1,119,248	0	:4th Qtr	: 1,000,233	1,326,662	6,898,796	7,008,34
OTAL.	: 1,732,,999	3,437,888	120,672	:Total	: 7,422,486	10,106,968	33,627,808	34,026,04
	:			: 1985/86				-
985/86				: June	340,425	588,237	1,728,933	1,757,61
Sept	: 8,086	33,974	0		: 251,910	478,428		
			0	: July			1,889,404	1,931,40
Oct	: 314,654	350,199		: Aug	: 61,653	345,756	825,818	834,83
Nov	: 540,018	600,046	1,429	: Sept	: 109,312	347,927	1,288,425	1,304,86
st Qtr	: 862,758	984,219	1,429	: Ist Qtr	: 763,300	1,760,348	5,732,580	5,828,71
Dec	: 121,966	258,092	0	: Oct	872,324	1,087,159	1,256,991	1,264,61
Jan	374,481	483,279	0	: Nov	339,674	591,311	1,672,252	1,678,86
Feb	: 456,976	540,101	0	: Dec	: 592,242	689,112	3,210,457	3,232,19
2nd Qtr	953,423	1,281,472	0	2nd Qtr	: 1,804,240	2,367,582	6,139,700	6,175,66
Mar	369,991	416,011	0	: Jan	528,661	935,239	3,264,356	3,284,46
Apr	: 623,207	662,745	630	; Feb	: 1,413,559	1,589,598	2,394,906	2,418,05
May	: 1,212,047	1,240,983	0	: Mar	: 261,745	443,882	2,336,953	2,366,04
3rd Qtr	: 2,205,245	2,319,739	630	: 3rd Otr	: 2,203,965	2,968,719	7,996,215	8,068,55
	:			1	:			
June	: 1,765,143	1,774,942	0	: Apr	: 385,235	616,253	3,574,782	3,591,06
July	: 2,994,897	3,082,335	797	: May	: 1,088,551	1,276,845	3,795,409	3,822,07
Aug	: 1,116,694	1,139,076	Q	1	1 477 704	1 007 000	7 770 101	7 447 44
th Qtr	: 5,876,734	5,996,353	797	: 4th Qtr	: 1,473,786	1,893,098	7,370,191	7,413,13
411	:	,,,,,,,,	.,,	TOTAL	: 6,245,291	8,989,747	27,238,686	27,486,07

Table 13.-Corn, sorghum, barrey, and bats imports, 1985/86 to date

	: cc	DEN		: Year	: BARL	EY Y3.	OA	TS
Year and month	: Grain : only	Total	SORGHUM Total	: end : month	Grain	Total	Grain	Т
	:	Bushels		:	:	Bus	hels	
1007.107	:			: 1986/87	1 200 405	1 EQ1 E40	5,325,371	E 7
1986/87	: 311,213	332,783	6,329	: Juna : July	: 1,296,495	1,501,548	1,841,943	5,3
Sept Oct	: 66,792	107,949	0, 129	: Aug	: 19,469	210,558	1,537,423	1,5
Nov	: 333,201	353,750	33	: Sept	: 75,927	307,474	846,095	8
NOV	: 333,201	223,720	,,	: John	: '2,22'	201,414	040,022	
1st Qtr	711,206	794,482	6,362	: Ist Qtr	: 1,407,031	2,242,626	9,550,832	9,6
Dec	: 66,353	131,009	0	: Oct	: 31,578	207,980	1,262,426	1,2
Jan REV.	: 85,979	134,935	0	: Nov	: 926,059	1,193,914	2,695,161	3,3
Feb	: 14,207	52,622	86	: Dec	: 173,536	310,750	1,241,736	1,2
2nd Qtr	: 166,539	318,566	86	: 2nd Qtr	: 1,131,173	1,712,644	5,199,323	5,8
Mar	: 29,812	63,602	0	: Jan	392,962	681,307	3,981,067	4,0
	: 400,056	428,391	0	: Feb	: 625,953	772,737	3,994,932	4,0
Apr	: 19,009	30,652	0	: Mar	: 1,808,103	1,888,079	2,277,619	2,3
ray	: 12,002	20,022	•	·	:	1,000,072	2,277,017	-1-
3rd Qtr	: 448,877	522,645	0	: 3rd Qtr	: 2,827,018	3,342,123	10,253,618	10,3
June	: 326,401	339,131	0	: Apr	: 508,133	591,606	3,401,071	3,4
July	: 32,223	48,591	197	: May	: 792,379	849,842	3,951,545	3,9
Aug	: 71,486	471,582	Ö	1	1			
	:			: 4th Qtr	: 1,300,512	1,441,448	7,352,616	7,4
4th Qtr	: 430,110	471,582	197	1	1			
TOTAL	: 1,756,732	2,107,275	6,645	: TOTAL	: 6,665,734	8,738,841	32, 356, 389	33,
1987/88	:			: 1987/88				
				: June	: 683,655	895,760	3,730,421	3,:
Sept	: 130,361	137,954	-0-	: July	: 195,998	212,386	1,717,932	1,
Oct	: 354,333	373,790	1,370	: Aug:	220,222	434,659	1,541,932	1.1
Nov	: 14,262	25,486	833	: Sept	: 1,061,243	1,396,495	1,541,932	1,
	1	F 7 7 8 7 6 7 6	2 222	:	1 0 101 110	0.070.700	0 531 530	
1st Qtr	498,956	537,230	2,203	: Ist Qtr	: 2,161,118	2,939,300	8,531,570	8,
Dec	246,126	298,521	-0-	: Oct	: 926,329	1,222,582	1,274,484	1,
Jan	1	,	_	: Nov	: 876,498	1,209,708	5,106,952	5,
Feb	1			: Dec	: 1,146,248	1,384,777	2,537,116	2,
2nd Qtr				: 2nd Qtr	: 2,949,075	3,817,067	8,918,552	9,
THE ALL	*			· Zild VII	. 2,747,077	3,017,007	0,710,772	7,

Corn includes grain only (yellow dent corn, other), seed, and cornmeat. Sorghum is grain only. Barley includes grain or (barley for malting, other), pearl barley, milled and malting. Oats include grain (hulled or unhulled, unhull oats fit a for human consumption, and oatmeat fit for human consumption.

Source: Bureau of the Census, U.S. Department of Commerce.

Table 14.--Grain protein feeds: Production, exports, and stocks by months, United States, 1970-87

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July.	Aug.	Total
						1,00	0 short	tons					
ORN GLUTEN	FEED AND	MEAL											
Production 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	112.7 153.4 155.9 175.5 188.7 213.1 237.6 247.8 278.7 271.7 342.9 384.1 442.0 450.0 450.0 450.4 475.1	157.5 165.0 169.9 202.7 191.0 227.9 213.8 251.6 251.5 307.0 351.0 436.1 448.1 448.8 470.3	144.1 130.5 163.4 173.3 172.4 203.1 218.0 217.8 245.3 317.7 281.0 319.2 401.6 407.3 366.9 439.1 403.7	141.3 126.1 155.5 172.4 182.6 185.9 193.6 224.6 224.6 229.3 309.7 286.7 310.6 336.7 399.1 461.6 381.0	133.1 131.7 154.6 174.2 203.1 208.6 185.0 215.3 208.7 297.1 278.7 312.5 325.3 382.9 447.7 445.5	122.7 141.5 157.0 153.7 192.3 196.1 201.9 226.7 222.1 294.8 262.6 299.5 358.8 326.2 411.2	154.2 162.7 159.9 202.2 197.0 200.3 236.3 259.2 289.1 289.3 324.0 3772.1 388.6 516.7 507.3 431.7 479.5	139.1 151.1 180.8 178.4 193.7 224.5 242.4 247.0 237.8 261.4 295.9 349.3 397.4 548.8 492.9 459.9	162.6 165.0 180.2 187.2 215.7 214.6 239.0 318.3 272.3 366.4 351.0 507.1 555.6 459.9 465.1	157.1 158.9 178.5 171.3 203.5 220.0 243.6 274.2 300.7 280.6 374.2 362.7 434.9 471.2 538.3 495.4 481.6	148.1 155.8 183.8 168.8 196.1 209.4 218.8 276.1 2287.7 292.1 3562.3 397.9 517.8 558.1 515.9 498.9	147.8 155.9 218.2 177.7 205.6 226.5 255.9 287.6 262.8 324.4 388.2 455.9 495.7 554.5 498.2 485.3	1,720.3 1,797.6 2,057.7 2,137.4 2,341.7 2,529.8 2,989.6 3,209.3 3,524.0 3,728.8 4,079.3 4,617.2 5,451.7 5,710.2 5,576.3
exports (fe	ed and med	79.5	71.0	111.1	79.0	88.5	89.0	116.6	96.1	94.5	88.9	79.4	1,104.0
1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	83.3 324.7 209.4 177.8 361.5 212.9 212.8 386.8 266.4 347.5 426.4 431.0	113.9 146.9 69.3 246.3 239.6 350.0 280.0 304.7 244.3 405.9 361.0 490.7	96.4 173.4 185.0 157.7 190.8 237.7 294.3 312.6 428.7 347.1 357.2	121.2 79.1 184.2 205.3 266.4 220.5 297.0 259.0 283.3 306.6 481.7	110.8 183.2 105.1 197.4 210.4 187.1 295.5 410.9 279.5 397.9 492.3	56.7 117.8 127.3 207.1 201.2 194.0 362.6 263.5 217.9 386.7 327.1	138.1 128.8 148.8 231.0 299.4 297.9 355.2 497.8 398.9 439.3 519.2	214.5 178.4 199.4 163.1 362.2 322.8 532.7 330.2 348.2 388.4 420.5	113.7 94.6 165.6 302.1 195.5 320.5 275.4 221.1 273.2 280.7 398.4	108.8 182.6 327.7 227.2 189.6 205.9 303.5 301.8 302.5 321.7 346.2	118.3 180.3 143.6 192.0 301.4 303.5 317.1 366.6 242.0 351.5 350.9	141.6 123.1 198.1 222.4 291.9 229.7 257.0 384.8 357.1 456.7 267.6	1,417.3 1,912.5 2,063.3 3,109.5 3,082.5 3,783.1 4,039.8 3,642.0 4,430.0 4,748.5
BREWERS' DR	IED GRAIN	s											
Production 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986	29.0 30.1 31.1 30.2 27.0 30.4 28.3 20.4 23.7 26.9 32.8 23.4 19.8 13.5 10.1 12.1	27.8 28.3 28.0 31.8 26.7 31.5 26.0 21.3 19.9 28.2 24.3 23.0 18.2 10.3 11.7 12.3	25.1 24.9 24.2 25.3 24.1 22.6 18.8 18.3 17.1 122.0 21.2 18.4 9.8 9.5 10.1	27.2 27.2 23.0 24.3 23.1 26.3 19.6 19.9 20.7 22.1 24.6 19.6 19.8 12.0 11.0	26.8 26.4 26.3 27.0 25.0 21.4 20.2 21.4 25.6 24.6 21.1 19.0 11.1 13.6	24.9 28.2 26.0 23.9 25.2 25.2 29.3 18.5 24.9 25.0 23.7 21.6 16.1 10.2 12.7	32.1 31.9 30.4 27.7 25.0 16.7 28.3 24.2 30.3 20.7 28.9 23.3 16.6 13.9 11.7 15.8	32.1 32.7 30.9 29.1 32.0 23.6 29.5 25.8 28.2 29.5 27.9 21.6 13.3 14.5 12.7 13.6	32.4 34.8 34.0 33.2 32.0 26.1 28.3 31.1 30.6 21.9 20.4 12.3 14.8 13.7 15.3	36.0 35.8 31.8 31.8 35.9 30.9 27.8 31.7 28.9 30.3 25.1 20.0 15.4 14.3 16.3	34.9 34.3 35.4 36.4 31.2 29.6 27.6 27.6 34.2 29.8 25.0 20.5 16.1 14.0	32.0 33.2 36.5 32.4 31.7 33.7 29.4 31.1 29.8 23.4 17.6 17.1 13.2	360.: 367.: 357.: 352.: 343.: 322.: 303.: 279.: 305.: 333.: 220.: 152.: 147.: 162.:
Stocks, end 1970 1971 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	1 of month 5.4 6.4 7.0 3.0 3.4 2.7 2.4 1.9 1.7 0.9 1.8 1.0 1.5 0.7 0.8 0.9 1.0	5.1 5.6 2.0 2.9 2.5 2.2 1.4 1.0 1.7 1.2 0.8 0.4 1.0	5.3 4.7 3.8 2.5 2.5 2.2 1.3 1.4 0.9 1.4 0.3 0.7 0.7	6.9 3.9 3.0 2.0 2.7 2.6 1.9 1.6 0.9 0.2 0.7 0.7 0.7	5.3 3.8 3.1 2.3 2.4 1.5 1.4 1.0 0.6 0.8 0.5 0.8 0.4 0.8 0.7 0.3	5.3 3.8 2.4 2.4 2.5 1.5 1.7 1.7 0.8 1.1 1.1 1.4 0.4 0.5 0.4	5.1 3.6 2.6 2.6 2.0 1.3 0.8 1.4 1.0 1.2 1.0 0.7 0.5 0.5	4.7 3.5 2.7 2.0 2.7 1.2 1.4 1.9 1.0 1.2 1.4 0.6 0.8 0.8	4.1 4.1 3.1 2.4 2.0 1.5 1.3 1.8 1.1 1.7 2.0 0.6 0.7 1.1 0.7	4.2 4.0 2.4 3.0 2.2 2.5 3.1 1.1 4 2.0 2.0 0.7 0.9 0.7 0.6	5.2 5.8 2.5 3.8 2.0 2.2 3.1 2.0 1.0 0.1 1.9 1.3 0.6 0.9 1.1 0.6	6.8 6.4 3.0 3.5 2.2 2.3 3.3 2.9 1.9 1.9 1.7 1.0 0.7	

Table 14.--Grain protein feeds: Production, exports, and stocks by months, United States, 1970-87--continued

Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Total
						1,00	0 short	tons					
IST ILLERS'	DRIED GRA	INS											
roduction							74.7	00.7	20.6	27.0	26.6	26.0	382.
1970	31.8	38.0	35.8	33.5	33.7	35.6	36.3	28.7	28.6 37.6	27.8 35.8	26.6	22.0	408.
1971	31.5	34.6	33.7	35.2	37.8	36.4	38.6	36.9		40.9	31.2	31.7	426.
1972	27.4	31.9	33.2	33.5	35.9	36.9	41.6	40.5	41.9		33.9	31.7	457.
1973	31.7	33.8	36.9	37.3	50.5	37.8	41.7	42.1	42.4	37.2 28.6	24.0	25.8	341.
1974	30.7	33.6	29.4	28.1	28.0	22.2	28.9	30.0	32.5	38.7	28.2	28.6	394.
1975	29.8	38.0	32.6	32.5	32.2	29.1	35.5	37.2 33.4	30.0	29.6	29.7	32.4	372.
1976	32.6	30.4	31.5	26.9	30.0	29.0	36.5		37.4	38.6	33.3	34.0	404
1977	37.6	35.6	29.9	33.5	33.5	30.1	28.4	32.4	49.3	46.0	39.5	40.2	495
1978	33.3	36.7	41.3	40.5	36.4	39.2	45.1	44.9	49.2	41.9	30.3	33.3	493.
1979	35.1	35.0	56.4	40.3	38.4	40.6	50.8	48.0	39.9	34.1	33.3	39.0	494
1980	36.5	42.5	42.7	43.5	43.8	40.7	40.6	34.3	40.7	47.7	41.3	45.1	486
1981	41.9	41.8	39.1	43.4	35.1		65.9	61.6	69.3	69.8	62.1	62.6	750
1982	50.9	61.9	62.2	66.3	62.9	55.3	57.6	56.4	56.9	55.8	51.6	50.8	623
1983	50.8	61.6	29.9	44.3 86.7	53.9 85.5	54.2	97.5	88.5	94.1	76.5	77.5	76.3	1,003
1984	65.7	90.3			103.6	95.7	110.5	107.3	107.7	108.7	107.4	109.3	1,246
1985	83.1	110.4	101.7	101.2	112.7	102.2	111.8	104.5	113.9	109.0	111.9	109.1	1,322.
1986	112.0	109.2	108.6	117.6	11201	102.2	111.0	104.5	112.7	103.0	111.2	103.1	1,322
1987	109.3	116.0	100.6	112.8									
Stocks, end	of month												
1970	1.6	1.9	2.2	2.2	1.7	1.6	2.4	1.5	1.2	1.6	.9	1.1	
1971	2.0	1.7	3.3	4.1	2.3	2.2	2.5	2.0	2.7	2.9	1.9	1.8	
1972	1.0	1.2	1.1	1.3	1.6	1.8	1.9	2.1	4.2	2.7	3.8	2.8	
1973	1.7	3.4	3.2	2.9	3.4	2.0	3.0	4.9	3.6	2.9	4.4	1.7	
1974	1.3	3.0	1.0	1.7	1.4	1.5	2.3	2.8	4.0	5.3	5.4	4.7	
1975	4.8	4.1	4.1	4.5	. 1.9	2.1	2.4	3.9	7.0	4.3	4.9	2.5	
1976	2.6	2.2	4.5	3.4	2.2	1.4	2.0	2.6	2.9	2.8	2.2	3.8	
1977	4.0	4.7	3.8	1.7	1.7	2.9	4.3	3.6	5.0	4.3	2.0	2.0	
1978	1.4	1.8	2.0	2.2	2.8	2.0	2.3	3.4	4.4	4.0	3.4	2.1	
1979	3.6	2.9	4.9	2.7	2.1	3.8	3.1	5.6	4.5	4.3	2.7	2.0	
1980	4.1	2.7	3.2	4.1	2.3	4.4	4.3	5.2	3.2	2.6	3.9	3.0	
1981	3.2	3.8	4.1	3.9	2.4	2.9	3.2	4.2	4.2	3.4	5.5	5.0	
1982	4.6	5.5	4.1	4.2.	4.5	5.6	4.6	7.4	7.3	6.6	6.9	6.6	
1983	4.4	4.8	6.3	6.0	4.4	4.2	6.4	8.3	7.8	8.1	11.6	9.2	
1984	5.6	10.9	10.3	10.5	12.0	9.1	8.1	10.2	9.4	10.8	10.9	10.4	
1985	13.2	14.1	12.4	12.7	9.0	7.3	8.9	8.7	8.1	6.1	9.2	6.0	
1986	8.1	6.6	10.1	9.1	15.4	11.0	19.9	10.2	9.6	13.7	8.8	12.0	
1987	11.5	15.1	14.2	14.2	8.7								

Source: Corn Refiners Association, Inc. and Livestock and Grain Market News, AMS, USDA.

Table 15.--Feed grains and grain products used in the production of alcohol, distilled spirits, and peer, 5, months, 1975 to date 1/

Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Λug.	Total
					١,	000 bust	els					
led spiri	ts and a	Icohol			CORN AN	D CORN P	PRODUCTS					
1,621 1,511 1,884 1,682 1,920 1,737 2,240 4,829 3,898 3,532 5,691 4,500 4,401	2,161 2,072 1,705 1,962 2,377 2,110 2,621 6,291 3,892 5,395 5,997 4,994 4,522	1,962 1,632 1,444 2,121 2,501 1,836 2,066 6,007 3,599 5,299 2,927 4,568	1,688 1,274 1,459 2,120 1,696 1,903 2,550 6,443 3,446 5,150 2,071 4,797	1,554 1,464 1,451 1,849 2,149 2,441 2,433 6,188 3,690 5,294 2,242 4,618	1,316 1,607 1,495 1,928 2,174 2,297 2,869 5,654 3,800 5,262 2,162 4,376	1,985 2,072 1,628 2,168 2,825 2,949 4,024 6,029 4,261 6,033 2,788 4,775	2,333 2,004 1,912 2,274 2,795 2,775 3,630 4,584 4,238 5,403 3,114 4,536	1,974 1,959 1,995 2,399 2,738 2,234 3,369 5,565 3,902 4,568 4,679 4,756	1,957 1,756 1,746 2,217 2,153 1,801 3,261 5,955 3,091 5,955 4,570 4,614	1,292 1,415 750 907 910 1,593 4,075 5,135 2,571 6,385 3,815 4,334	1,250 1,613 1,624 1,539 1,565 2,055 3,528 4,985 3,035 5,640 3,989 4,288	21,093 20,329 19,093 23,166 25,73 36,666 67,663 43,423 63,91 44,049 55,156
4,069 4,118 3,900 3,989 3,547 3,586 3,461 3,421 2,829 3,220 2,759 2,734	3,598 4,006 3,679 3,907 3,546 3,600 3,547 3,329 3,166 3,327 3,259 2,862 2,362	3,258 3,422 3,644 3,511 3,191 3,359 2,959 2,910 2,872 2,673 2,649 2,419 2,213	3,651 3,381 3,793 3,478 2,991 3,772 3,102 2,960 2,362 2,362 2,362 2,411	3,435 3,715 3,960 3,529 3,463 3,070 3,389 3,157 3,180 2,889 3,191 2,777	3,259 3,693 3,904 3,166 3,786 3,576 3,447 3,128 3,408 2,985 3,157 2,860	4,234 5,526 4,555 4,232 4,049 3,965 4,015 3,809 4,049 3,314 3,169 3,164	4,503 5,375 4,708 4,149 4,011 4,262 3,998 3,633 4,309 3,923 3,923 3,923 3,923	5,369 5,402 4,788 4,374 4,376 4,178 3,884 4,235 4,240 4,120 3,199	5,584 5,275 5,017 4,115 4,335 4,540 3,677 4,038 3,963 4,078 3,838 3,178	4,875 4,890 4,655 4,366 4,627 4,693 3,829 4,255 3,994 3,595 3,769 3,049	4,728 4,805 4,892 4,205 4,353 4,353 4,117 3,878 3,787 3,569 3,410 3,110 2,780	50,56; 53,60; 51,49; 46,98; 46,27; 47,46; 43,60; 42,35; 42,52; 39,66; 40,20; 34,53;
			ER									
5,690 5,629 5,784 5,671 5,467 5,722 5,826 8,290 7,319 6,361 8,911 7,259 7,240	5,759 6,078 5,384 5,869 5,923 5,710 6,168 9,620 7,058 8,722 9,256 7,856 6,884	5,220 5,054 5,088 5,632 5,692 5,195 5,025 8,917 6,471 7,972 5,576 6,987	5,339 4,655 5,252 5,598 4,6675 5,675 5,652 9,403 5,808 7,547 4,569 7,208	4,989 5,179 5,411 5,378 5,612 5,511 5,822 9,345 6,870 8,183 5,433 7,395	4,575 5,300 5,399 5,094 5,960 5,873 6,316 8,782 7,208 8,247 5,319 7,236	6,219 7,548 6,183 6,400 6,874 6,914 8,039 9,838 8,310 9,347 6,257 7,939	6,836 7,379 6,620 6,423 6,806 7,037 7,628 8,217 8,547 9,326 7,043 7,609	7,343 7,361 6,783 6,733 7,114 6,764 7,547 9,449 8,137 8,808 8,799 7,955	7,541 7,031 6,763 6,332 6,488 6,938 9,993 7,054 10,028 8,408 7,992	6,167 6,305 5,405 5,273 5,537 6,286 7,904 9,390 6,565 9,980 7,584 7,383	5,978 6,418 6,516 5,744 5,918 6,172 7,406 8,772 6,604 9,050 7,099 7,068	71,65,73,93,70,58,70,14,72,07,73,20,80,27,110,01,85,95,103,4,25,89,68
lled spir	its and	alcohol			G	RAIN SOR	GHUM					
234 252 237 308 349 331 409 269 334 362 1,170	255 277 294 363 442 379 392 231 409 1,311 1,499 315	195 224 215 369 434 415 410 378 364 1,207 2,183 370	248 201 250 368 418 399 456 389 334 1,503 2,763 423	209 212 289 366 460 199 420 356 279 1,085 2,875 519	147 214 354 320 392 275 406 355 263 835 2,694 363	255 200 306 375 368 379 437 241 195 1,117 2,798	249 212 294 353 271 340 390 264 246 1,110 2,056 471	397 246 307 347 399 380 415 299 304 943 769 421	235 237 300 296 320 381 386 347 326 516 410	208 245 386 331 406 357 415 322 306 474 1,515	223 225 316 349 353 370 371 253 323 523 833 318	2,85 2,74 3,54 4,14 4,61 4,20 4,90 3,70 3,68 10,98 21,56
	1,621 1,621 1,884 1,682 1,920 1,737 2,240 4,829 3,898 3,532 5,691 4,500 4,401 4,069 4,118 3,980 3,586 3,586 3,586 3,421 2,829 3,586 3,586 3,421 2,829 2,759 2,734 DISTILLED 5,690 5,629 5,629 5,629 5,629 5,629 5,629 5,629 5,629 5,629 5,629 5,629 5,629 5,629 5,784 5,610 5,629 5,722 5,826 8,290 7,319 6,361 8,911 7,259 7,240	led spirits and a 1,621	led spirits and alcohol 1,621	led spirits and alcohol	led spirits and alcohol 1,621 2,161 1,962 1,688 1,554 1,511 2,072 1,632 1,274 1,464 1,884 1,705 1,444 1,459 1,451 1,682 1,962 2,121 2,120 1,849 1,737 2,110 1,836 1,903 2,441 2,240 2,621 2,066 2,550 2,433 4,829 6,291 6,007 6,443 6,188 3,898 3,892 3,599 3,446 3,690 3,532 5,395 5,299 5,150 5,294 5,691 5,997 2,927 2,071 2,242 4,500 4,994 4,568 4,797 4,618 4,069 3,598 3,258 3,651 3,435 4,118 4,006 3,422 3,381 3,715 3,900 3,679 3,644 3,793 3,960 3,547 3,546 3,191 2,991 3,463 3,985 3,600 3,359 3,772 3,070 3,586 3,547 2,959 3,102 3,389 3,461 3,329 2,910 2,960 3,157 3,461 3,329 2,910 2,960 3,157 3,421 3,166 2,872 2,362 3,180 2,829 3,272 2,673 2,397 2,889 3,220 3,259 2,649 2,498 3,191 2,759 2,862 2,419 2,411 2,777 2,734 2,362 2,213 DISTILLED SPIRITS AND BEER 5,690 5,759 5,220 5,339 4,989 5,629 6,078 5,054 4,655 5,179 5,784 5,384 5,088 5,252 5,411 5,671 5,869 5,632 5,598 5,378 5,467 5,923 5,692 4,687 5,612 5,722 5,710 5,195 5,655 5,511 5,826 6,168 5,025 5,655 5,822 8,290 9,620 8,917 9,403 9,345 7,319 7,058 6,471 5,808 6,870 6,361 8,722 7,972 7,547 8,183 8,911 9,256 5,576 4,569 5,433 7,259 7,856 6,987 7,208 7,395 11ed spirits and alcohol 234 255 195 248 209 252 277 224 201 212 237 294 215 250 289 308 363 369 368 368 368 369 349 442 434 418 460 331 379 415 399 199 409 392 410 456 420 269 231 378 389 356 334 409 364 334 379 334 109 362 111 1,207 1,503 1,085 1,170 1,499 2,183 2,763 2,875	1,621		1,000 bushels	1,621 2,161 1,962 1,688 1,554 1,316 1,905 2,333 1,974			

Table 15.--Feed grains and grain products used in the production of alcohol, distilled spirits, and beer, 1975 to date--continued

Year	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Total
						1,	,000 busl	nels					
						BAI	RLEY AND	MALT					
Distil	lled spir	its and	alcohol										
1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	165 263 256 228 302 222 248 235 180 105 152 127	97 147 198 127 156 118 162 199 94 56 119 95 83	97 173 259 240 221 180 189 185 132 110 141 77	191 209 262 269 264 195 247 455 158 162 149	300 231 265 289 291 241 315 309 167 216 173 140	335 193 202 321 273 164 297 274 182 240 370	251 212 184 340 288 230 263 225 160 167 122	228 227 202 256 266 320 287 252 210 192 163 162	212 246 210 294 255 297 302 292 263 194 169	242 332 226 335 333 358 315 289 180 185 253	305 293 250 352 329 345 369 288 252 156 183 225	270 287 268 363 352 321 283 248 213 182 148 200	2,693 2,813 2,782 3,414 3,330 2,991 3,320 3,277 2,300 1,960 2,074 1,792
Beer													
1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	12,060 11,988 12,671 13,059 13,106 14,191 14,194 13,628 13,427 13,333 12,880 13,323 12,781	12,266 12,297 11,982 13,051 13,293 14,721 14,356 12,430 13,027 13,751 12,597 13,404 12,273	11,173 12,271 11,103 14,020 13,119 14,148 13,466 12,590 13,068 12,456 11,647 11,904	10,265 10,969 9,595 11,494 11,450 12,860 11,806 11,537 10,778 10,367 10,361 11,329	9,516 10,304 9,448 12,094 12,106 11,319 11,251 10,779 10,900 11,040 11,162 10,456	8,798 8,567 9,244 9,849 10,548 9,852 10,061 9,670 9,348 9,362 9,719	9,318 8,504 8,902 10,142 10,483 10,616 10,056 9,981 9,031 9,617 9,578 10,377	9,677 9,244 9,950 10,792 11,100 10,622 12,234 11,113 10,526 11,136 11,568	9,536 8,693 9,832 10,523 12,061 11,595 11,232 10,640 10,925 10,357 11,081 11,125	8,430 11,930 12,355 13,284 12,857 12,814 12,862 13,008 12,253 11,925 12,939	10,322 12,164 12,170 12,614 13,242 13,678 13,193 12,724 12,289 13,101 12,803 12,150	11,418 12,240 12,656 13,326 14,035 14,451 13,259 13,350 13,632 13,390 12,706	122,779 129,171 129,908 144,248 147,570 152,393 147,781 142,167 140,160 140,038 137,554 139,956
TOTAL	DISTILLE	D SPIRIT	S AND BE	ER									
1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	12,225 12,251 12,927 13,287 13,408 14,413 14,442 13,863 13,607 13,438 13,032 13,450 12,993	12,363 12,444 12,180 13,178 13,449 14,518 12,629 13,121 13,807 12,716 13,499 12,356	11,270 12,444 11,362 14,260 13,340 14,328 13,655 12,775 13,200 12,566 11,788 11,981 12,005	10,456 11,178 9,857 11,763 11,714 13,055 12,053 11,992 10,936 10,558 10,516 10,975	9,816 10,535 9,713 12,383 12,305 12,347 11,634 11,560 10,946 11,116 11,213 11,302 10,563	9,133 8,760 9,446 10,170 10,962 10,712 10,149 10,335 9,852 9,852 9,732 9,836	9,569 8,716 9,086 10,482 10,771 10,846 10,319 10,206 9,191 9,784 9,700 10,492	9,905 9,471 10,152 11,048 11,366 10,942 12,521 11,365 10,736 11,328 11,731 11,787	9,748 8,939 10,042 10,817 12,316 11,892 11,534 10,932 11,188 10,551 11,250 11,292	8,672 12,262 12,581 13,619 13,311 13,215 13,172 13,177 13,297 12,433 12,110 12,992	10,627 12,457 12,420 12,966 13,571 14,023 13,562 13,012 12,541 13,257 12,986 12,375	11,688 12,527 12,924 13,689 14,387 14,772 13,542 13,598 13,845 13,572 12,854 11,207	125,472 131,984 132,690 147,662 150,900 155,384 151,101 145,444 142,460 141,998 139,628

Mostly for beverage but also includes some industrial alcohol and may include some fuel alcohol. Source: Department of the Treasury, Bureau of Alcohol, Tobacco and Firearms.

Table 16.--Hay: Production, harvested acreage, yield, prices received by farmers, and stocks

		Production		Hannaahad	Yield	C	Stock	S
Year	Alalfa hay	Other	Total all hay	Harvested acreage	per harvested acre	Season average price	January 	May
				1,000				
		1,000 tons -		acres	Tons	Dol./ton	- 1,000	tons
1970	75,573	51,396	126,969	61,467	2.07	26.10	89,365	24,056
1971	77,285	51,847	129,132	61,355	2.10	28.10	87,651	22,200
972	78,226	50,339	128,565	59,680	2.15	31.30	89,445	25,472
1973 1974	78,805	55,412	134,217	61,878	2.17	41.60	88,790	24,311
1975	74,368 78,183	52,016 54,214	126,384	60,195	2.16	52.10	93,159 84,687	25,353 18,505
1976	69,960	50,165	120,125	60,377	1.99	60.20	86,411	25,541
1977	80,814	51,397	132,211	60,988	2.17	53.70	77,651	19,540
1978	87,294	56,523	143,817	62,113	2.32	49.80	92,136	24,184
1979	38,110	59,197	147,307	61,279	2.40	59.40	99,024	30,108
1980	79,963	50,777	130,740	58,870	2.22	71.00	107,707	33,192
1981	83,696	58,824	142,520	59,599	2.39	67.30	91,689	25,374
1982	88,385	60,856	149,241	59,812	2.50	69.30	99,160	24,981
1983	82,212	58,552	140,764	59,717	2.36	75.80	103,996	28,118
1984 1985	90,105 85,048	60,543 63,553	150,648	60,423	2.45	72.70 67.60	89,280	20,148
1986	91,552	63,977	155,529	62,419	2.49	59.60 1/	121,734	26,698
1987	84,554	64,588	149,142	60,784	2.46	22.00 17	119,749	32,359

 $\mbox{I/Per program modification, hay stocks survey reference date has been changed from January I to December I beginning December I, 1986.$

Source: Agricultural Statistics Board, USDA.

Table 17. -- Hay: Average prices received by farmers, United States, by months; 1970-87 1/

Year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Average 2/
						Doll	ars per	ton					
1970 1971 1972 1973 1974 1975 1976 1977 1978	23.50 25.60 31.10 37.50 54.00 56.30 64.10 68.10 55.30 65.60	22.40 24.60 30.90 35.20 47.70 53.60 59.60 61.30 51.20 58.00	22.10 24.10 28.50 36.30 48.20 51.20 59.00 56.80 49.20 56.00	22.50 24.30 29.30 39.00 51.10 51.00 58.70 52.50 49.00 57.50	23.30 24.50 29.80 43.10 51.90 50.80 60.80 50.00 47.80 59.00	23.90 24.90 30.30 46.20 51.50 50.30 60.10 48.20 47.10 60.80	24.40 25.30 31.00 46.80 50.30 50.20 59.00 48.40 46.40 58.90	25.00 26.10 33.00 46.00 50.70 51.60 59.00 49.50 47.30 60.10	25.40 29.20 34.60 47.10 50.10 52.70 60.90 50.50 48.90 59.10	25.80 29.70 35.40 47.10 49.30 54.30 62.70 51.80 50.70 60.00	26.00 29.00 35.40 45.40 49.70 54.10 63.90 51.40 50.20 57.40	26.10 28.00 33.90 44.40 52.40 54.10 63.20 51.40 49.90 60.10	26.10 28.10 31.30 41.60 50.90 52.10 60.20 53.70 49.80
1980 1981 1982 1983 1984 1985 1986 1987	69.30 75.30 77.50 78.10 82.50 80.80 66.70 73.80	65.10 66.90 69.60 72.70 76.10 70.20 61.00 63.20	67.00 64.00 66.10 71.20 72.40 67.90 58.80 61.60	67.20 63.90 65.00 71.20 70.40 65.20 58.20 61.80	74.70 70.70 67.10 57.60	77.20 64.80 67.10 76.80 73.10 67.50 57.90 65.10	75.00 65.40 68.70 75.10 71.40 64.30 56.00 62.10	74.80 65.70 68.60 76.70 73.40 65.40 57.70 65.00	72.80 67.90 70.30 76.60 73.00 65.80 56.10 62.80	72.50 69.90 73.20 78.70 73.10 66.70 58.50	69.80 69.50 69.90 79.40 72.20 67.10 59.20	68.20 73.30 74.00 79.80 72.50 66.20 64.00	71.00 67.30 69.30 75.80 72.70 67.60 59.60

1/ Prices reported for mid-month. 2/ U.S. season average prices weighted by marketings.

Source: Agricultural Prices, Agricultural Statistics Board, USDA.

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